

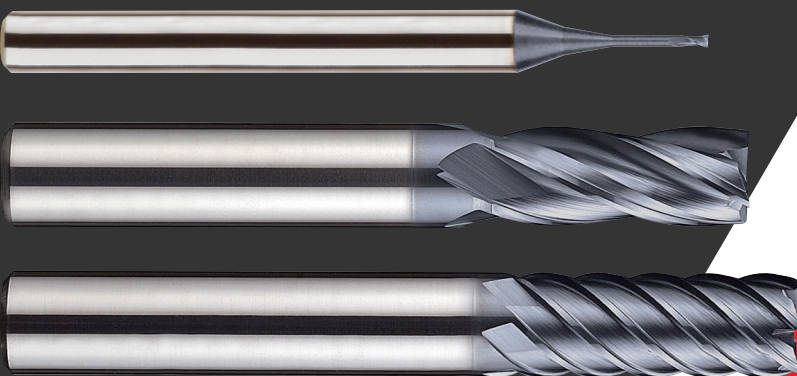
YE-4G16



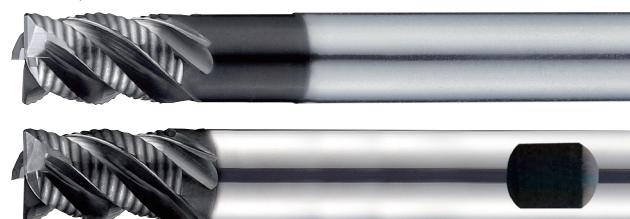
- ▶ Mold & Die
- ▶ YG-1 Special Tailored Coating
- ▶ Dry & Wet Cutting
- ▶ Excellent Surface Finish
- ▶ Close Tolerance Applications

4G MILLS

**High Speed Cutting
for Pre-Hardened Steels up to HRc55**



X-SPEED ROUGHER

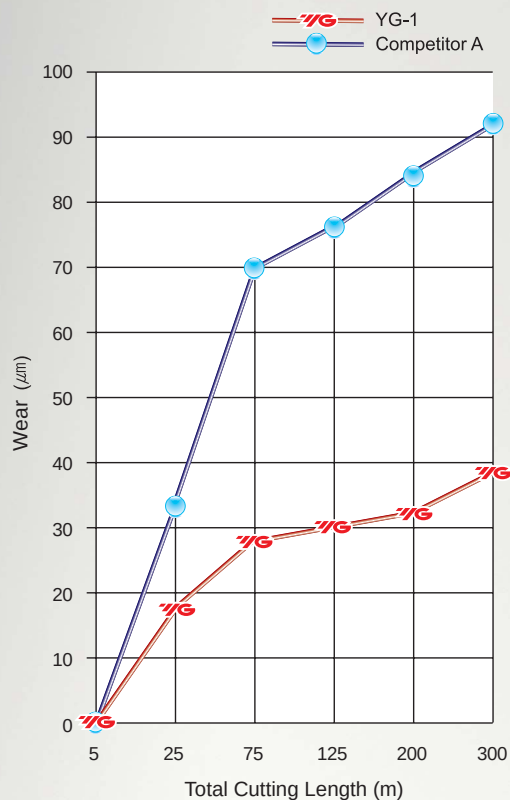


YG-1 CO., LTD.

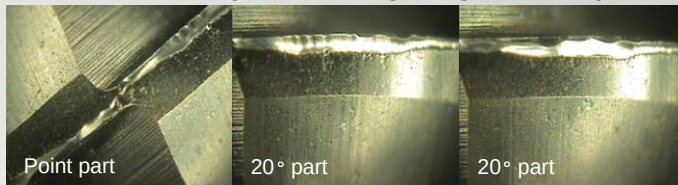
Suitable for wide range of work material, specifically for increasing tool life when machining pre-hardened materials, low hardness materials and cast iron, etc. High speed cutting, dry and wet cut recommended together.



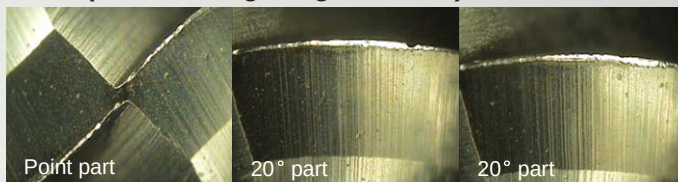
● TEST REPORT (Ball)



COMPETITOR A (Total Cutting Length : 300 m)



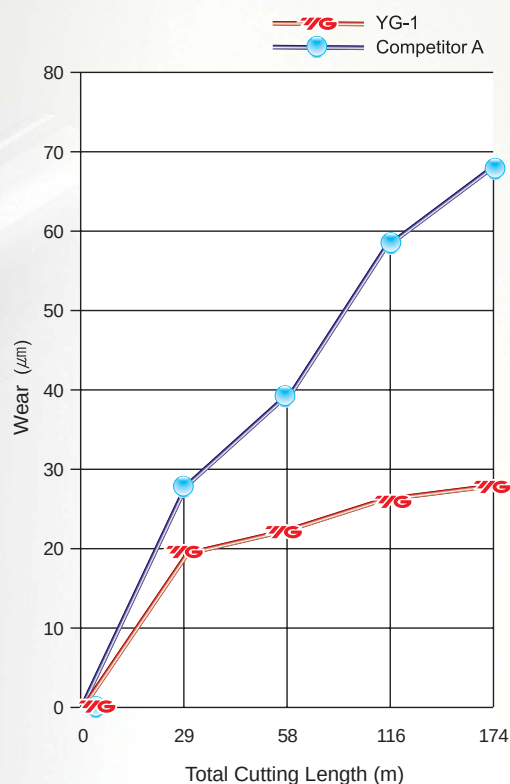
YG-1 (Total Cutting Length : 300 m)



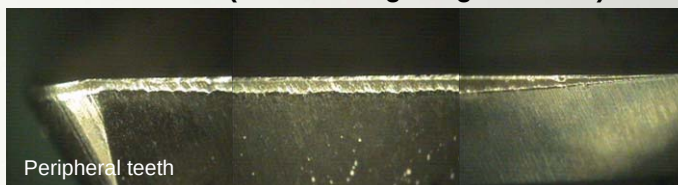
CUTTING CONDITION

Tool : SEMD98060E (2 Flute, Carbide Ball End Mill)
SIZE : $\varnothing 6 \times 6 \times 12 \times 90$
Work Material : KP4M (HRC35 / DIN 1.2738 Improved)
Cutting Speed : 130.061 m/min.
R.P.M : 6900 rev./min.
FEED : 830 mm/min.
Feed per tooth : 0.060 mm/tooth
Milling Method : Profiling
Milling Depth : Axial : 0.2 mm
Radial : 1.2 mm
Coolant : Oil Mist
Overhang : 26 mm

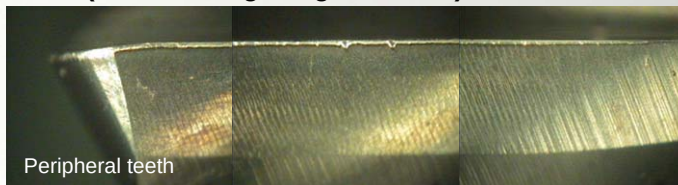
● TEST REPORT (Corner Radius)



COMPETITOR A (Total Cutting Length : 174 m)



YG-1 (Total Cutting Length : 174 m)



CUTTING CONDITION

Tool : SEME0110005E (4 Flute, Carbide Corner Radius End Mill)
SIZE : $\varnothing 10(R0.5) \times 10 \times 25 \times 100$
Work Material : KP4M (HRC35 / DIN 1.2738 Improved)
Cutting Speed : 51.522 m/min.
R.P.M : 1640 rev./min.
FEED : 180 mm/min.
Feed per tooth : 0.027 mm/tooth
Milling Method : Down & Side Cutting
Milling Depth : Axial : 25 mm
Radial : 0.5 mm
Coolant : Oil Mist
Overhang : 41 mm

INDEX

ITEM	MODEL	DESCRIPTION	SIZE		PAGE
			Min.	Max.	
SEMD98		CARBIDE, 2 FLUTE BALL NOSE	R0.05	R12.5	4
SEM846		CARBIDE, 2 FLUTE LONG NECK BALL NOSE	R0.05	R6.0	9
SEM846		CARBIDE, 2 FLUTE LONG NECK BALL NOSE (6mm shank)	R0.25	R1.0	17
SEMD99		CARBIDE, 2 FLUTE CORNER RADIUS	D0.2	D20.0	20
SEME61		CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS	D0.2	D20.0	26
SEME01		CARBIDE, 4 FLUTE CORNER RADIUS	D1.0	D20.0	41
SEME64		CARBIDE, 4 FLUTE LONG NECK CORNER RADIUS	D1.0	D20.0	46
SEME35		CARBIDE, 2 FLUTE	D0.03	D25.0	58
SEME70		CARBIDE, 2 FLUTE LONG LENGTH	D1.0	D25.0	63
SEM845		CARBIDE, 2 FLUTE LONG NECK	D0.1	D12.0	68
SEME36		CARBIDE, 4 FLUTE	D0.8	D25.0	75
SEME71		CARBIDE, 4 FLUTE	D1.0	D20.0	77
SEME72		CARBIDE, 4 FLUTE LONG LENGTH	D1.0	D25.0	80
SEME73		CARBIDE, 4 FLUTE LONG NECK	D1.0	D12.0	85
SEME75		CARBIDE, 6 FLUTE 45° HELIX	D6.0	D20.0	89

X-SPEED ROUGHER

G9D75 G9D67		CARBIDE, 4&5 FLUTE MULTIPLE HELIX SHORT LENGTH CORNER RADIUS	D6.0	D20.0	90
G9D76 G9D68		CARBIDE, 4&5 FLUTE MULTIPLE HELIX LONG LENGTH CORNER RADIUS	D6.0	D20.0	90
G9D77 G9D69		CARBIDE, 4&5 FLUTE MULTIPLE HELIX LONG REACH CORNER RADIUS	D6.0	D20.0	91
GAE53		HSS-PM, 4&5 MULTIPLE HELIX SHORT LENGTH CORNER RADIUS	D6.0	D20.0	92
RECOMMENDED CUTTING CONDITIONS					93

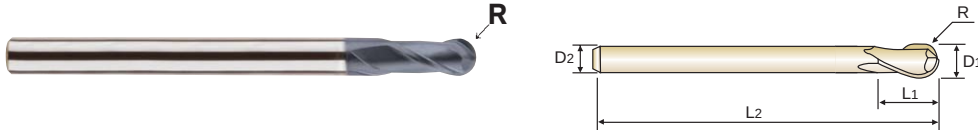
◎ : Excellent ○ : Good

P					H	M	K	N			S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels		High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45	HRC45~55	HRC55~70							
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CARBIDE, 2 FLUTE BALL NOSE (SHORT, REGULAR, LONG SHANK)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Due to unique ball nose geometry and cutting edges, cutting force decreased, and wear resistance increased.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.



SEMD98 SERIES



P.93

R ≤ 3

R > 3

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEMD98001SE	R0.05	0.1	4	0.1	40	Short
★ SEMD98001E	R0.05	0.1	4	0.2	40	Regular
SEMD980013SE	R0.05	0.1	3	0.2	40	3mm Shank
SEMD980015SE	R0.075	0.15	4	0.15	40	Short
SEMD980015E	R0.075	0.15	4	0.3	40	Regular
SEMD9800153SE	R0.075	0.15	3	0.3	40	3mm Shank
SEMD98002SE	R0.1	0.2	4	0.2	40	Short
★ SEMD98002E	R0.1	0.2	4	0.4	40	Regular
SEMD980023SE	R0.1	0.2	3	0.4	40	3mm Shank
SEMD98003SE	R0.15	0.3	4	0.3	40	Short
★ SEMD98003E	R0.15	0.3	4	0.6	40	Regular
SEMD980033SE	R0.15	0.3	3	0.6	40	3mm Shank
SEMD98004SE	R0.2	0.4	4	0.4	40	Short
★ SEMD98004E	R0.2	0.4	4	0.8	40	Regular
SEMD980043SE	R0.2	0.4	3	0.8	40	3mm Shank
SEMD98005SE	R0.25	0.5	4	0.5	40	Short
★ SEMD98005E	R0.25	0.5	4	1.0	40	Regular
SEMD980053SE	R0.25	0.5	3	1.0	40	3mm Shank
SEMD98006SE	R0.3	0.6	4	0.6	40	Short
★ SEMD98006E	R0.3	0.6	4	1.2	40	Regular
SEMD980063SE	R0.3	0.6	3	1.2	40	3mm Shank
SEMD98007SE	R0.35	0.7	4	0.7	40	Short
★ SEMD98007E	R0.35	0.7	4	1.4	40	Regular
SEMD980073SE	R0.35	0.7	3	1.4	40	3mm Shank
SEMD98008SE	R0.4	0.8	4	0.8	40	Short
★ SEMD98008E	R0.4	0.8	4	1.6	40	Regular
SEMD980083SE	R0.4	0.8	3	1.6	40	3mm Shank
SEMD98009SE	R0.45	0.9	4	0.9	40	Short
★ SEMD98009E	R0.45	0.9	4	1.8	40	Regular
SEMD980093SE	R0.45	0.9	3	1.8	40	3mm Shank

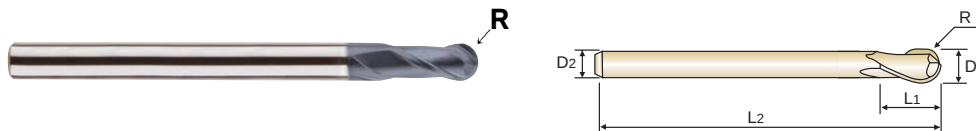
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

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SEMD98 SERIES



P.93

R ≤ 3 R > 3

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEMD98010040E	R0.5	1.0	6	1.5	40	Short
SEMD980103SE	R0.5	1.0	3	2.5	50	3mm Shank
★ SEMD980104SE	R0.5	1.0	4	2.5	50	Regular
★ SEMD98010E	R0.5	1.0	6	2.5	50	Regular
★ SEMD98010070E	R0.5	1.0	6	2.5	70	Long Shank
SEMD98010100E	R0.5	1.0	6	2.5	100	Long Shank
SEMD98012040E	R0.6	1.2	6	2	40	Short
SEMD980123SE	R0.6	1.2	3	3	50	3mm Shank
SEMD980124SE	R0.6	1.2	4	3	50	Regular
★ SEMD98012E	R0.6	1.2	6	3	50	Regular
SEMD98012070E	R0.6	1.2	6	3	70	Long Shank
SEMD98012100E	R0.6	1.2	6	3	100	Long Shank
SEMD98015040E	R0.75	1.5	6	2.5	40	Short
SEMD980153SE	R0.75	1.5	3	4	50	3mm Shank
★ SEMD980154SE	R0.75	1.5	4	4	50	Regular
★ SEMD98015E	R0.75	1.5	6	4	50	Regular
★ SEMD98015070E	R0.75	1.5	6	4	70	Long Shank
SEMD98015100E	R0.75	1.5	6	4	100	Long Shank
★ SEMD98020040E	R1.0	2.0	6	3	40	Short
SEMD980203SE	R1.0	2.0	3	5	50	3mm Shank
★ SEMD980204SE	R1.0	2.0	4	5	50	Regular
★ SEMD98020E	R1.0	2.0	6	5	50	Regular
★ SEMD98020080E	R1.0	2.0	6	5	80	Long Shank
SEMD98020100E	R1.0	2.0	6	5	100	Long Shank
SEMD98025040E	R1.25	2.5	6	4	40	Short
SEMD980253SE	R1.25	2.5	3	6	60	3mm Shank
SEMD980254SE	R1.25	2.5	4	6	60	Regular
★ SEMD98025E	R1.25	2.5	6	6	60	Regular
★ SEMD98025080E	R1.25	2.5	6	6	80	Long Shank
SEMD98025100E	R1.25	2.5	6	6	100	Long Shank

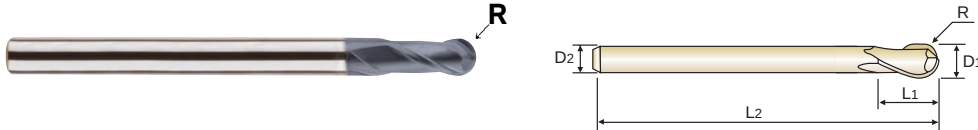
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P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
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P.93

R ≤ 3

R > 3

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
★ SEMD98030040E	R1.5	3.0	6	4.5	40	Short
SEMD980303SE	R1.5	3.0	3	6	60	3mm Shank
★ SEMD980304SE	R1.5	3.0	4	6	60	Regular
★ SEMD98030E	R1.5	3.0	6	6	60	Regular
★ SEMD98030080E	R1.5	3.0	6	6	80	Long Shank
★ SEMD98030100E	R1.5	3.0	6	6	100	Long Shank
SEMD98035E	R1.75	3.5	6	8	70	-
★ SEMD98040050E	R2.0	4.0	6	6	50	Short
★ SEMD980404SE	R2.0	4.0	4	8	70	Regular
★ SEMD98040E	R2.0	4.0	6	8	70	Regular
★ SEMD980401004SE	R2.0	4.0	4	8	100	Long Shank
SEMD980401204SE	R2.0	4.0	4	8	120	Long Shank
★ SEMD98040100E	R2.0	4.0	6	8	100	Long Shank
★ SEMD98040120E	R2.0	4.0	6	8	120	Long Shank
★ SEMD98045E	R2.25	4.5	6	9	80	-
★ SEMD98050060E	R2.5	5.0	6	7.5	60	Short
★ SEMD98050E	R2.5	5.0	6	10	80	Regular
SEMD980505SE	R2.5	5.0	5	10	80	5mm Shank
SEMD98055E	R2.75	5.5	6	11	90	-
★ SEMD98060050E	R3.0	6.0	6	9	50	Short
SEMD98060060E	R3.0	6.0	6	9	60	Short
★ SEMD98060080E	R3.0	6.0	6	9	80	Short
★ SEMD98060E	R3.0	6.0	6	12	90	Regular
SEMD98060110E	R3.0	6.0	6	12	110	Long Shank
★ SEMD98060130E	R3.0	6.0	6	12	130	Long Shank
SEMD98060150E	R3.0	6.0	6	12	150	Long Shank
SEMD98065E	R3.25	6.5	8	13	90	-
★ SEMD98070E	R3.5	7.0	8	14	90	-
★ SEMD98080050E	R4.0	8.0	8	12	50	Short
SEMD98080060E	R4.0	8.0	8	12	60	Short

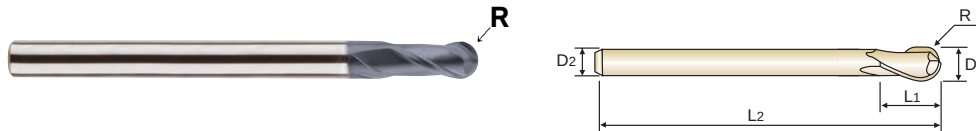
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P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

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P.93

R ≤ 3 R > 3

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEMD98080080E	R4.0	8.0	8	12	80	Short
★ SEMD98080090E	R4.0	8.0	8	12	90	Short
★ SEMD98080E	R4.0	8.0	8	14	100	Regular
SEMD98080130E	R4.0	8.0	8	14	130	Long Shank
★ SEMD98080150E	R4.0	8.0	8	14	150	Long Shank
SEMD98085E	R4.25	8.5	10	16	100	-
SEMD98090E	R4.5	9.0	10	18	100	-
SEMD98100050E	R5.0	10.0	10	15	50	Short
★ SEMD98100060E	R5.0	10.0	10	15	60	Short
SEMD98100080E	R5.0	10.0	10	15	80	Short
★ SEMD98100090E	R5.0	10.0	10	15	90	Short
★ SEMD98100E	R5.0	10.0	10	18	100	Regular
★ SEMD98100130E	R5.0	10.0	10	18	130	Long Shank
★ SEMD98100150E	R5.0	10.0	10	18	150	Long Shank
★ SEMD98100180E	R5.0	10.0	10	18	180	Long Shank
SEMD98100200E	R5.0	10.0	10	18	200	Long Shank
SEMD98110E	R5.5	11.0	12	20	100	-
SEMD98120060E	R6.0	12.0	12	18	60	Short
★ SEMD98120080E	R6.0	12.0	12	18	80	Short
SEMD98120090E	R6.0	12.0	12	18	90	Short
★ SEMD98120100E	R6.0	12.0	12	18	100	Short
★ SEMD98120E	R6.0	12.0	12	22	110	Regular
SEMD98120130E	R6.0	12.0	12	22	130	Long Shank
★ SEMD98120150E	R6.0	12.0	12	22	150	Long Shank
SEMD98120180E	R6.0	12.0	12	22	180	Long Shank
★ SEMD98120220E	R6.0	12.0	12	22	200	Long Shank
★ SEMD98130E	R6.5	13.0	12	24	100	-
SEMD98140E	R7.0	14.0	12	26	100	Regular
★ SEMD9814014SE	R7.0	14.0	14	26	100	-
SEMD9814016SE	R7.0	14.0	16	26	100	-

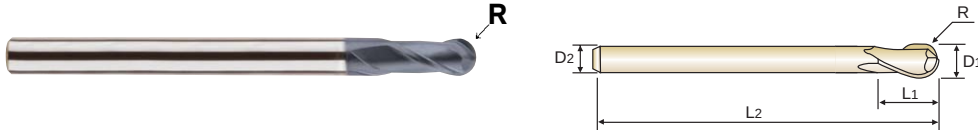
▶ ★ Stock Item

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Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
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P.93

R ≤ 3

R > 3

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEMD98150E	R7.5	15.0	16	28	140	-
★ SEMD98160100E	R8.0	16.0	16	24	100	Short
SEMD98160130E	R8.0	16.0	16	24	130	Short
★ SEMD98160E	R8.0	16.0	16	30	150	Regular
SEMD98160180E	R8.0	16.0	16	30	180	Long Shank
SEMD98160200E	R8.0	16.0	16	30	200	Long Shank
SEMD98180E	R9.0	18.0	16	34	150	Regular
SEMD9818018SE	R9.0	18.0	18	34	150	-
★ SEMD98200100E	R10.0	20.0	20	30	100	Short
SEMD98200130E	R10.0	20.0	20	30	130	Short
★ SEMD98200E	R10.0	20.0	20	38	150	Regular
SEMD98200200E	R10.0	20.0	20	38	200	Long Shank
SEMD98250120E	R12.5	25.0	25	50	120	Short
SEMD98250E	R12.5	25.0	25	50	180	Regular

▶ ★ Stock Item

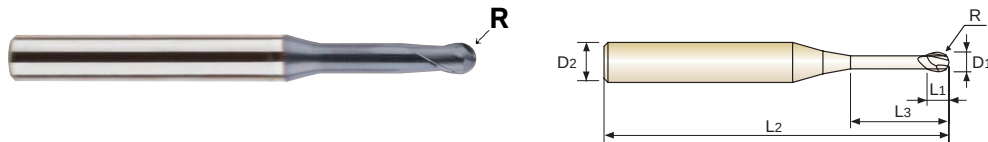
Size	Radius Tolerance (mm)	Mill Dia. Tolerance (mm)	Shank Dia. Tolerance
up to R3	± 0.005	0~-0.012	h6
over R3	± 0.010	0~-0.015	

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK BALL NOSE

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Due to unique ball nose geometry and cutting edges, cutting force decreased, and so wear resistance increased.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.



SEM846 SERIES



P.94~97

R ≤3 R >3

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM846001002E	R0.05	0.1	4	0.1	0.2	40
SEM846001003E	R0.05	0.1	4	0.1	0.3	40
SEM846001005E	R0.05	0.1	4	0.1	0.5	40
SEM84600101E	R0.05	0.1	4	0.1	1	40
★ SEM846002005E	R0.1	0.2	4	0.2	0.5	40
★ SEM84600201E	R0.1	0.2	4	0.2	1	40
SEM846002015E	R0.1	0.2	4	0.2	1.5	40
SEM84600202E	R0.1	0.2	4	0.2	2	40
SEM84600203E	R0.1	0.2	4	0.2	3	40
★ SEM84600301E	R0.15	0.3	4	0.3	1	40
SEM846003015E	R0.15	0.3	4	0.3	1.5	40
★ SEM84600302E	R0.15	0.3	4	0.3	2	40
SEM846003025E	R0.15	0.3	4	0.3	2.5	40
★ SEM84600303E	R0.15	0.3	4	0.3	3	40
SEM84600304E	R0.15	0.3	4	0.3	4	40
SEM84600305E	R0.15	0.3	4	0.3	5	40
★ SEM84600401E	R0.2	0.4	4	0.4	1	40
SEM846004015E	R0.2	0.4	4	0.4	1.5	40
★ SEM84600402E	R0.2	0.4	4	0.4	2	40
SEM846004025E	R0.2	0.4	4	0.4	2.5	40
★ SEM84600403E	R0.2	0.4	4	0.4	3	40
★ SEM84600404E	R0.2	0.4	4	0.4	4	40
SEM84600405E	R0.2	0.4	4	0.4	5	40
SEM84600406E	R0.2	0.4	4	0.4	6	40
SEM84600408E	R0.2	0.4	4	0.4	8	40
SEM84600410E	R0.2	0.4	4	0.4	10	40
★ SEM84600501E	R0.25	0.5	4	0.5	1	45
SEM846005015E	R0.25	0.5	4	0.5	1.5	45
★ SEM84600502E	R0.25	0.5	4	0.5	2	45

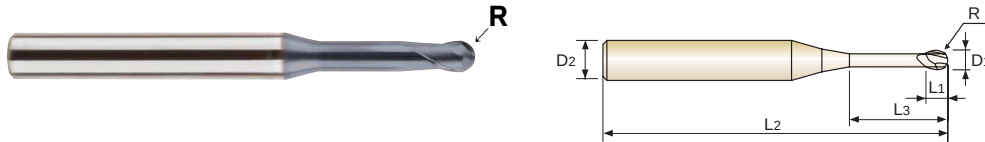
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

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SEM846 SERIES



P.94~97

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM846005025E	R0.25	0.5	4	0.5	2.5	45
★ SEM84600503E	R0.25	0.5	4	0.5	3	45
★ SEM84600504E	R0.25	0.5	4	0.5	4	45
★ SEM84600505E	R0.25	0.5	4	0.5	5	45
★ SEM84600506E	R0.25	0.5	4	0.5	6	45
★ SEM84600508E	R0.25	0.5	4	0.5	8	45
★ SEM84600510E	R0.25	0.5	4	0.5	10	45
SEM84600512E	R0.25	0.5	4	0.5	12	45
SEM84600514E	R0.25	0.5	4	0.5	14	45
SEM84600516E	R0.25	0.5	4	0.5	16	45
SEM84600601E	R0.3	0.6	4	0.6	1	45
★ SEM84600602E	R0.3	0.6	4	0.6	2	45
★ SEM84600603E	R0.3	0.6	4	0.6	3	45
★ SEM84600604E	R0.3	0.6	4	0.6	4	45
★ SEM84600605E	R0.3	0.6	4	0.6	5	45
★ SEM84600606E	R0.3	0.6	4	0.6	6	45
★ SEM84600608E	R0.3	0.6	4	0.6	8	45
★ SEM84600610E	R0.3	0.6	4	0.6	10	45
★ SEM84600612E	R0.3	0.6	4	0.6	12	45
SEM84600614E	R0.3	0.6	4	0.6	14	45
SEM84600616E	R0.3	0.6	4	0.6	16	45
SEM84600702E	R0.35	0.7	4	0.7	2	45
SEM84600704E	R0.35	0.7	4	0.7	4	45
SEM84600706E	R0.35	0.7	4	0.7	6	45
SEM84600708E	R0.35	0.7	4	0.7	8	45
SEM84600710E	R0.35	0.7	4	0.7	10	45
SEM84600712E	R0.35	0.7	4	0.7	12	45
SEM84600801E	R0.4	0.8	4	0.8	1	45
★ SEM84600802E	R0.4	0.8	4	0.8	2	45

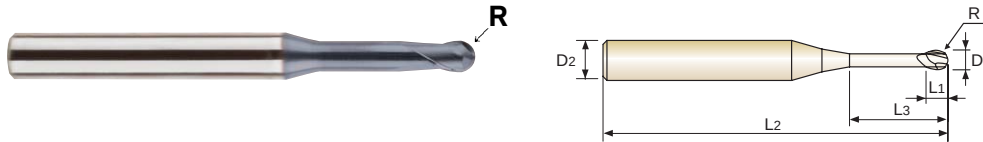
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

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SEM846 SERIES



P.94~97

R ≤ 3 R > 3

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
★ SEM84600803E	R0.4	0.8	4	0.8	3	45
★ SEM84600804E	R0.4	0.8	4	0.8	4	45
★ SEM84600805E	R0.4	0.8	4	0.8	5	45
★ SEM84600806E	R0.4	0.8	4	0.8	6	45
★ SEM84600808E	R0.4	0.8	4	0.8	8	45
★ SEM84600810E	R0.4	0.8	4	0.8	10	45
SEM84600812E	R0.4	0.8	4	0.8	12	45
SEM84600814E	R0.4	0.8	4	0.8	14	45
SEM84600816E	R0.4	0.8	4	0.8	16	45
SEM84600820E	R0.4	0.8	4	0.8	20	45
SEM84600904E	R0.45	0.9	4	0.9	4	45
SEM84600906E	R0.45	0.9	4	0.9	6	45
SEM84600908E	R0.45	0.9	4	0.9	8	45
SEM84600910E	R0.45	0.9	4	0.9	10	45
SEM84601002E	R0.5	1.0	4	1	2	50
★ SEM84601003E	R0.5	1.0	4	1	3	50
★ SEM84601004E	R0.5	1.0	4	1	4	50
★ SEM84601005E	R0.5	1.0	4	1	5	50
★ SEM84601006E	R0.5	1.0	4	1	6	50
SEM84601007E	R0.5	1.0	4	1	7	50
★ SEM84601008E	R0.5	1.0	4	1	8	50
SEM84601009E	R0.5	1.0	4	1	9	50
★ SEM84601010E	R0.5	1.0	4	1	10	50
★ SEM84601012E	R0.5	1.0	4	1	12	50
★ SEM84601014E	R0.5	1.0	4	1	14	50
★ SEM84601016E	R0.5	1.0	4	1	16	50
SEM84601018E	R0.5	1.0	4	1	18	50
★ SEM84601020E	R0.5	1.0	4	1	20	50
SEM84601022E	R0.5	1.0	4	1	22	60

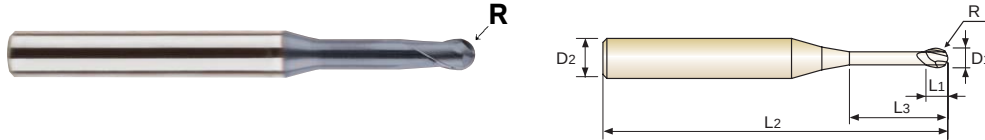
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

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SEM846 SERIES



P.94~97

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM84601026E	R0.5	1.0	4	1	26	60
SEM84601030E	R0.5	1.0	4	1	30	70
SEM84601040E	R0.5	1.0	4	1	40	80
SEM84601050E	R0.5	1.0	4	1	50	100
SEM84601204E	R0.6	1.2	4	1.2	4	50
★ SEM84601206E	R0.6	1.2	4	1.2	6	50
★ SEM84601208E	R0.6	1.2	4	1.2	8	50
★ SEM84601210E	R0.6	1.2	4	1.2	10	50
★ SEM84601212E	R0.6	1.2	4	1.2	12	50
★ SEM84601216E	R0.6	1.2	4	1.2	16	50
SEM84601220E	R0.6	1.2	4	1.2	20	50
SEM84601226E	R0.6	1.2	4	1.2	26	60
SEM84601406E	R0.7	1.4	4	1.4	6	50
SEM84601408E	R0.7	1.4	4	1.4	8	50
SEM84601410E	R0.7	1.4	4	1.4	10	50
SEM84601412E	R0.7	1.4	4	1.4	12	50
SEM84601416E	R0.7	1.4	4	1.4	16	50
SEM84601503E	R0.75	1.5	4	1.5	3	50
★ SEM84601504E	R0.75	1.5	4	1.5	4	50
SEM84601505E	R0.75	1.5	4	1.5	5	50
★ SEM84601506E	R0.75	1.5	4	1.5	6	50
SEM84601507E	R0.75	1.5	4	1.5	7	50
★ SEM84601508E	R0.75	1.5	4	1.5	8	50
★ SEM84601510E	R0.75	1.5	4	1.5	10	50
★ SEM84601512E	R0.75	1.5	4	1.5	12	50
★ SEM84601514E	R0.75	1.5	4	1.5	14	50
★ SEM84601516E	R0.75	1.5	4	1.5	16	50
SEM84601518E	R0.75	1.5	4	1.5	18	50
★ SEM84601520E	R0.75	1.5	4	1.5	20	50

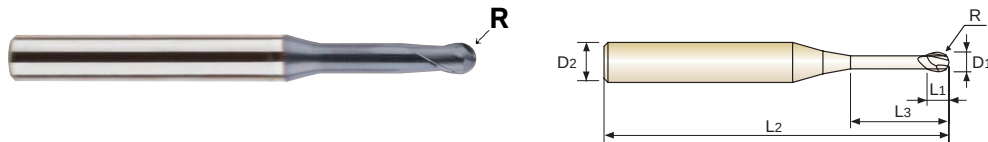
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

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SEM846 SERIES



P.94~97

R ≤ 3

R > 3

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM84601522E	R0.75	1.5	4	1.5	22	60
SEM84601526E	R0.75	1.5	4	1.5	26	60
SEM84601530E	R0.75	1.5	4	1.5	30	70
SEM84601535E	R0.75	1.5	4	1.5	35	70
SEM84601540E	R0.75	1.5	4	1.5	40	80
SEM84601604E	R0.8	1.6	4	1.6	4	50
SEM84601606E	R0.8	1.6	4	1.6	6	50
★ SEM84601608E	R0.8	1.6	4	1.6	8	50
SEM84601610E	R0.8	1.6	4	1.6	10	50
★ SEM84601612E	R0.8	1.6	4	1.6	12	50
★ SEM84601616E	R0.8	1.6	4	1.6	16	50
SEM84601620E	R0.8	1.6	4	1.6	20	50
SEM84601804E	R0.9	1.8	4	1.8	4	50
SEM84601806E	R0.9	1.8	4	1.8	6	50
★ SEM84601808E	R0.9	1.8	4	1.8	8	50
SEM84601810E	R0.9	1.8	4	1.8	10	50
★ SEM84601812E	R0.9	1.8	4	1.8	12	50
★ SEM84601816E	R0.9	1.8	4	1.8	16	50
SEM84601820E	R0.9	1.8	4	1.8	20	50
SEM84602004E	R1.0	2.0	4	2	4	50
★ SEM84602006E	R1.0	2.0	4	2	6	50
★ SEM84602008E	R1.0	2.0	4	2	8	50
★ SEM84602010E	R1.0	2.0	4	2	10	50
★ SEM84602012E	R1.0	2.0	4	2	12	50
★ SEM84602014E	R1.0	2.0	4	2	14	50
★ SEM84602016E	R1.0	2.0	4	2	16	50
★ SEM84602018E	R1.0	2.0	4	2	18	50
★ SEM84602020E	R1.0	2.0	4	2	20	50
SEM84602022E	R1.0	2.0	4	2	22	60

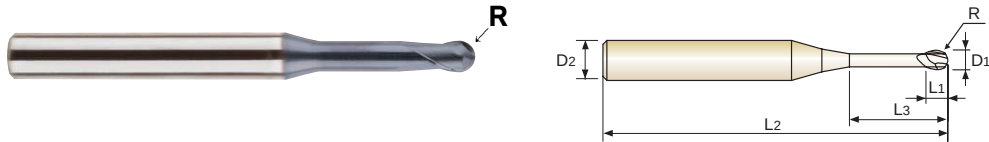
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

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SEM846 SERIES



P.94~97

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
★ SEM84602026E	R1.0	2.0	4	2	26	60
★ SEM84602030E	R1.0	2.0	4	2	30	70
SEM84602035E	R1.0	2.0	4	2	35	70
SEM84602040E	R1.0	2.0	4	2	40	80
SEM84602045E	R1.0	2.0	4	2	45	90
SEM84602050E	R1.0	2.0	4	2	50	100
SEM84602060E	R1.0	2.0	4	2	60	110
SEM84602508E	R1.25	2.5	4	2.5	8	50
★ SEM84602510E	R1.25	2.5	4	2.5	10	50
SEM84602512E	R1.25	2.5	4	2.5	12	50
SEM84602516E	R1.25	2.5	4	2.5	16	50
★ SEM84602520E	R1.25	2.5	4	2.5	20	50
SEM84602522E	R1.25	2.5	4	2.5	22	60
SEM84602526E	R1.25	2.5	4	2.5	26	60
SEM84602530E	R1.25	2.5	4	2.5	30	70
SEM84602535E	R1.25	2.5	4	2.5	35	70
SEM84602540E	R1.25	2.5	4	2.5	40	80
SEM84602545E	R1.25	2.5	4	2.5	45	90
SEM84602550E	R1.25	2.5	4	2.5	50	100
SEM84603006E	R1.5	3.0	6	3	6	50
★ SEM84603008E	R1.5	3.0	6	3	8	50
★ SEM84603010E	R1.5	3.0	6	3	10	50
★ SEM84603012E	R1.5	3.0	6	3	12	50
★ SEM84603014E	R1.5	3.0	6	3	14	60
★ SEM84603016E	R1.5	3.0	6	3	16	60
★ SEM84603018E	R1.5	3.0	6	3	18	60
★ SEM84603020E	R1.5	3.0	6	3	20	60
SEM84603022E	R1.5	3.0	6	3	22	65
★ SEM84603026E	R1.5	3.0	6	3	26	65

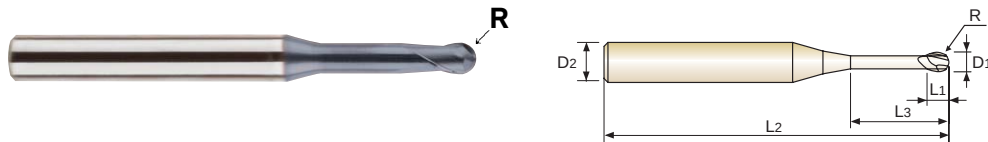
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

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SEM846 SERIES



P.94~97

R ≤ 3

R > 3

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
★ SEM84603030E	R1.5	3.0	6	3	30	70
★ SEM84603035E	R1.5	3.0	6	3	35	70
SEM84603040E	R1.5	3.0	6	3	40	80
SEM84603045E	R1.5	3.0	6	3	45	90
SEM84603050E	R1.5	3.0	6	3	50	100
SEM84603060E	R1.5	3.0	6	3	60	100
SEM84604008E	R2.0	4.0	6	4	8	50
★ SEM84604010E	R2.0	4.0	6	4	10	50
★ SEM84604012E	R2.0	4.0	6	4	12	50
★ SEM84604014E	R2.0	4.0	6	4	14	60
★ SEM84604016E	R2.0	4.0	6	4	16	60
★ SEM84604018E	R2.0	4.0	6	4	18	60
★ SEM84604020E	R2.0	4.0	6	4	20	60
SEM84604022E	R2.0	4.0	6	4	22	65
★ SEM84604026E	R2.0	4.0	6	4	26	65
★ SEM84604030E	R2.0	4.0	6	4	30	70
★ SEM84604035E	R2.0	4.0	6	4	35	70
★ SEM84604040E	R2.0	4.0	6	4	40	80
SEM84604045E	R2.0	4.0	6	4	45	90
SEM84604050E	R2.0	4.0	6	4	50	100
SEM84604055E	R2.0	4.0	6	4	55	100
SEM84604060E	R2.0	4.0	6	4	60	100
SEM84605015E	R2.5	5.0	6	6	15	60
SEM84605020E	R2.5	5.0	6	6	20	60
SEM84605026E	R2.5	5.0	6	6	26	65
★ SEM84605030E	R2.5	5.0	6	6	30	70
SEM84605035E	R2.5	5.0	6	6	35	70
SEM84605040E	R2.5	5.0	6	6	40	80
SEM84605045E	R2.5	5.0	6	6	45	90

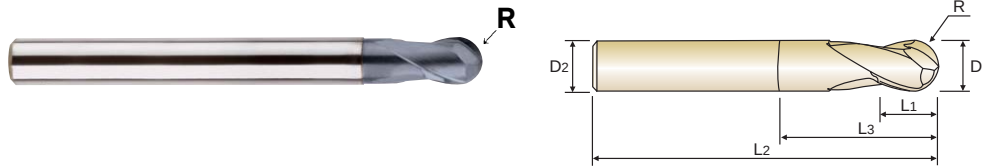
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK BALL NOSE

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Due to unique ball nose geometry and cutting edges, cutting force decreased, and so wear resistance increased.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.



SEM846 SERIES



P.94~97

R ≤ 3 R > 3

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM84605050E	R2.5	5.0	6	6	50	100
SEM84605055E	R2.5	5.0	6	6	55	100
SEM84605060E	R2.5	5.0	6	6	60	100
★ SEM84606020E	R3.0	6.0	6	8	20	60
★ SEM84606030E	R3.0	6.0	6	8	30	60
SEM84606020090E	R3.0	6.0	6	12	20	90
SEM84606030090E	R3.0	6.0	6	12	30	90
★ SEM84608025E	R4.0	8.0	8	10	25	70
SEM84608035E	R4.0	8.0	8	10	35	70
SEM84608025100E	R4.0	8.0	8	14	25	100
★ SEM84608035100E	R4.0	8.0	8	14	35	100
★ SEM84610030E	R5.0	10.0	10	12	30	75
SEM84610040E	R5.0	10.0	10	12	40	75
★ SEM84610030100E	R5.0	10.0	10	18	30	100
★ SEM84610040100E	R5.0	10.0	10	18	40	100
★ SEM84612032E	R6.0	12.0	12	14	32	80
SEM84612045E	R6.0	12.0	12	14	45	80
★ SEM84612032110E	R6.0	12.0	12	22	32	110
SEM84612045110E	R6.0	12.0	12	22	45	110

▶ ★ Stock Item

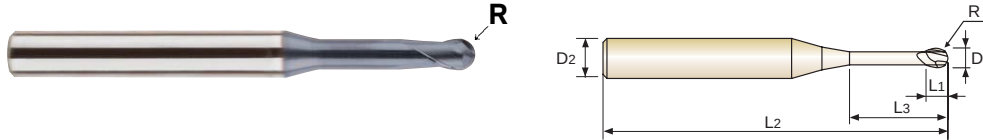
Size	Radius Tolerance (mm)	Mill Dia. Tolerance (mm)	Shank Dia. Tolerance
up to R3	± 0.005	0 ~ -0.012	h6
over R3	± 0.010	0 ~ -0.015	

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK BALL NOSE (6MM SHANK)

- ▶ Due to new geometry, nano grain raw material and coating, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Due to unique ball nose geometry and cutting edges, cutting force decreased, and wear resistance increased.
- ▶ Supplying 6 mm enlarged shank diameter end mills, strong gripping holding force results in highly efficient cutting.



SEM846 SERIES



P.94~97

Unit : mm

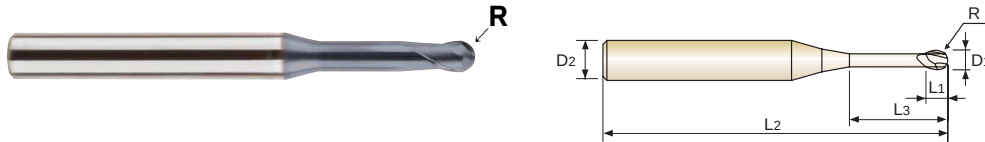
EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM846005016SE	R0.25	0.5	6	0.5	1	45
SEM846005026SE	R0.25	0.5	6	0.5	2	45
SEM846005046SE	R0.25	0.5	6	0.5	4	45
SEM846006016SE	R0.3	0.6	6	0.6	1	45
SEM846006026SE	R0.3	0.6	6	0.6	2	45
SEM846006036SE	R0.3	0.6	6	0.6	3	45
SEM846006046SE	R0.3	0.6	6	0.6	4	45
SEM846006056SE	R0.3	0.6	6	0.6	5	45
SEM846006066SE	R0.3	0.6	6	0.6	6	45
SEM846006086SE	R0.3	0.6	6	0.6	8	45
SEM846006106SE	R0.3	0.6	6	0.6	10	45
SEM846006126SE	R0.3	0.6	6	0.6	12	45
SEM846006146SE	R0.3	0.6	6	0.6	14	45
SEM846006166SE	R0.3	0.6	6	0.6	16	45
SEM846008016SE	R0.4	0.8	6	0.8	1	45
SEM846008026SE	R0.4	0.8	6	0.8	2	45
SEM846008036SE	R0.4	0.8	6	0.8	3	45
SEM846008046SE	R0.4	0.8	6	0.8	4	45
SEM846008056SE	R0.4	0.8	6	0.8	5	45
SEM846008066SE	R0.4	0.8	6	0.8	6	45
SEM846008086SE	R0.4	0.8	6	0.8	8	45
SEM846008106SE	R0.4	0.8	6	0.8	10	45
SEM846008126SE	R0.4	0.8	6	0.8	12	45
SEM846008146SE	R0.4	0.8	6	0.8	14	45
SEM846008166SE	R0.4	0.8	6	0.8	16	45
SEM846008206SE	R0.4	0.8	6	0.8	20	45
SEM846010026SE	R0.5	1.0	6	1	2	50
SEM846010036SE	R0.5	1.0	6	1	3	50
SEM846010046SE	R0.5	1.0	6	1	4	50

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK BALL NOSE (6MM SHANK)

- ▶ Due to new geometry, nano grain raw material and coating, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Due to unique ball nose geometry and cutting edges, cutting force decreased, and wear resistance increased.
- ▶ Supplying 6 mm enlarged shank diameter end mills, strong gripping holding force results in highly efficient cutting.



SEM846 SERIES



P.94-97

Unit : mm

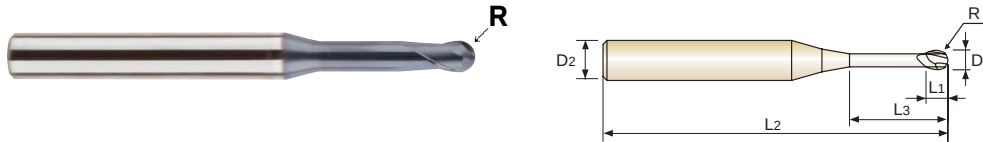
EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM846010056SE	R0.5	1.0	6	1	5	50
SEM846010066SE	R0.5	1.0	6	1	6	50
SEM846010076SE	R0.5	1.0	6	1	7	50
SEM846010086SE	R0.5	1.0	6	1	8	50
SEM846010096SE	R0.5	1.0	6	1	9	50
SEM846010106SE	R0.5	1.0	6	1	10	50
SEM846010126SE	R0.5	1.0	6	1	12	50
SEM846010146SE	R0.5	1.0	6	1	14	50
SEM846010166SE	R0.5	1.0	6	1	16	50
SEM846010186SE	R0.5	1.0	6	1	18	50
SEM846010206SE	R0.5	1.0	6	1	20	50
SEM846010226SE	R0.5	1.0	6	1	22	60
SEM846010266SE	R0.5	1.0	6	1	26	60
SEM846010306SE	R0.5	1.0	6	1	30	70
SEM846015036SE	R0.75	1.5	6	1.5	3	50
SEM846015046SE	R0.75	1.5	6	1.5	4	50
SEM846015066SE	R0.75	1.5	6	1.5	6	50
SEM846015086SE	R0.75	1.5	6	1.5	8	50
SEM846015106SE	R0.75	1.5	6	1.5	10	50
SEM846015126SE	R0.75	1.5	6	1.5	12	50
SEM846015146SE	R0.75	1.5	6	1.5	14	50
SEM846015166SE	R0.75	1.5	6	1.5	16	50
SEM846015186SE	R0.75	1.5	6	1.5	18	50
SEM846015206SE	R0.75	1.5	6	1.5	20	50
SEM846015226SE	R0.75	1.5	6	1.5	22	60
SEM846015266SE	R0.75	1.5	6	1.5	26	60
SEM846015306SE	R0.75	1.5	6	1.5	30	70
SEM846015356SE	R0.75	1.5	6	1.5	35	70
SEM846015406SE	R0.75	1.5	6	1.5	40	80

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK BALL NOSE (6MM SHANK)

- ▶ Due to new geometry, nano grain raw material and coating, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Due to unique ball nose geometry and cutting edges, cutting force decreased, and wear resistance increased.
- ▶ Supplying 6 mm enlarged shank diameter end mills, strong gripping holding force results in highly efficient cutting.



SEM846 SERIES



P.94-97

Unit : mm

EDP No.	Radius of Ball Nose R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM846020046SE	R1.0	2.0	6	2	4	50
SEM846020066SE	R1.0	2.0	6	2	6	50
SEM846020086SE	R1.0	2.0	6	2	8	50
SEM846020106SE	R1.0	2.0	6	2	10	50
SEM846020126SE	R1.0	2.0	6	2	12	50
SEM846020146SE	R1.0	2.0	6	2	14	50
SEM846020166SE	R1.0	2.0	6	2	16	50
SEM846020186SE	R1.0	2.0	6	2	18	50
SEM846020206SE	R1.0	2.0	6	2	20	50
SEM846020226SE	R1.0	2.0	6	2	22	60
SEM846020266SE	R1.0	2.0	6	2	26	60
SEM846020306SE	R1.0	2.0	6	2	30	70
SEM846020356SE	R1.0	2.0	6	2	35	70
SEM846020406SE	R1.0	2.0	6	2	40	80
SEM846020456SE	R1.0	2.0	6	2	45	90
SEM846020506SE	R1.0	2.0	6	2	50	100

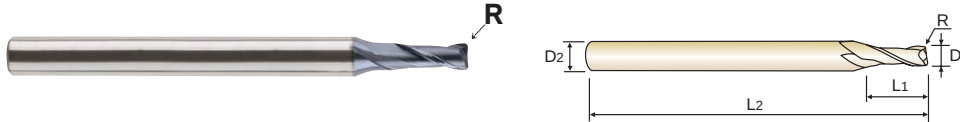
Mill Dia. Tolerance (mm)	Radius Tolerance (mm)	Shank Dia. Tolerance
0~-0.012	±0.005	h6

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE CORNER RADIUS (SHORT, REGULAR, LONG SHANK)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Available short, regular and long shank end mills.
- ▶ Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.



SEMD99 SERIES



P.98

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEMD99002002E	R0.02	0.2	4	0.4	40	-
SEMD99002005E	R0.05	0.2	4	0.4	40	-
SEMD99003002E	R0.02	0.3	4	0.6	40	-
SEMD99003005E	R0.05	0.3	4	0.6	40	-
SEMD99004005E	R0.05	0.4	4	0.8	40	-
SEMD9900401E	R0.1	0.4	4	0.8	40	-
SEMD99005005E	R0.05	0.5	4	1.0	40	-
SEMD9900501E	R0.1	0.5	4	1.0	40	-
SEMD99006005E	R0.05	0.6	4	1.2	40	-
SEMD9900601E	R0.1	0.6	4	1.2	40	-
SEMD9900602E	R0.2	0.6	4	1.2	40	-
SEMD99007005E	R0.05	0.7	4	1.4	40	-
SEMD9900701E	R0.1	0.7	4	1.4	40	-
SEMD9900702E	R0.2	0.7	4	1.4	40	-
SEMD99008005E	R0.05	0.8	4	1.6	40	-
SEMD9900801E	R0.1	0.8	4	1.6	40	-
SEMD9900802E	R0.2	0.8	4	1.6	40	-
SEMD99009005E	R0.05	0.9	4	1.8	40	-
SEMD9900901E	R0.1	0.9	4	1.8	40	-
SEMD99010005E	R0.05	1.0	6	2.5	50	-
SEMD9901001E	R0.1	1.0	6	2.5	50	-
★ SEMD9901002E	R0.2	1.0	6	2.5	50	-
★ SEMD9901003E	R0.3	1.0	6	2.5	50	-
SEMD99012005E	R0.05	1.2	6	3	50	-
SEMD9901201E	R0.1	1.2	6	3	50	-
SEMD9901202E	R0.2	1.2	6	3	50	-
SEMD9901203E	R0.3	1.2	6	3	50	-
SEMD99015005E	R0.05	1.5	6	4	50	-
SEMD9901501E	R0.1	1.5	6	4	50	-
★ SEMD9901502E	R0.2	1.5	6	4	50	-

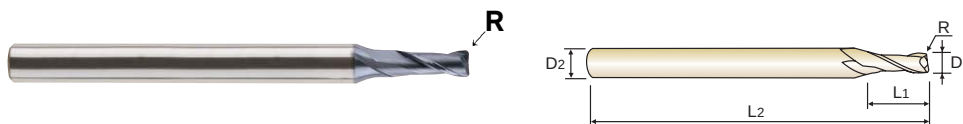
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE CORNER RADIUS (SHORT, REGULAR, LONG SHANK)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Available short, regular and long shank end mills.
- ▶ Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.



SEMD99 SERIES



P.98

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
★ SEMD9901503E	R0.3	1.5	6	4	50	-
★ SEMD9901505E	R0.5	1.5	6	4	50	-
SEMD9902001E	R0.1	2.0	6	6	50	-
★ SEMD9902002E	R0.2	2.0	6	6	50	-
★ SEMD9902003E	R0.3	2.0	6	6	50	-
★ SEMD9902005E	R0.5	2.0	6	6	50	-
SEMD9902501E	R0.1	2.5	6	7	60	-
SEMD9902502E	R0.2	2.5	6	7	60	-
SEMD9902503E	R0.3	2.5	6	7	60	-
SEMD9902505E	R0.5	2.5	6	7	60	-
SEMD9903001E	R0.1	3.0	6	8	60	-
★ SEMD9903002E	R0.2	3.0	6	8	60	-
★ SEMD9903003E	R0.3	3.0	6	8	60	-
★ SEMD9903005E	R0.5	3.0	6	8	60	-
SEMD9903010E	R1.0	3.0	6	8	60	-
SEMD9903501E	R0.1	3.5	6	10	70	-
SEMD9903502E	R0.2	3.5	6	10	70	-
SEMD9903503E	R0.3	3.5	6	10	70	-
SEMD9903505E	R0.5	3.5	6	10	70	-
SEMD99040014SE	R0.1	4.0	4	10	70	4mm Shank
SEMD99040024SE	R0.2	4.0	4	10	70	4mm Shank
SEMD99040034SE	R0.3	4.0	4	10	70	4mm Shank
SEMD99040054SE	R0.5	4.0	4	10	70	4mm Shank
SEMD99040104SE	R1.0	4.0	4	10	70	4mm Shank
SEMD99040011004SE	R0.1	4.0	4	10	100	4mm Shank
SEMD99040021004SE	R0.2	4.0	4	10	100	4mm Shank
SEMD99040031004SE	R0.3	4.0	4	10	100	4mm Shank
SEMD99040051004SE	R0.5	4.0	4	10	100	4mm Shank
SEMD99040101004SE	R1.0	4.0	4	10	100	4mm Shank
SEMD9904001E	R0.1	4.0	6	10	70	Regular

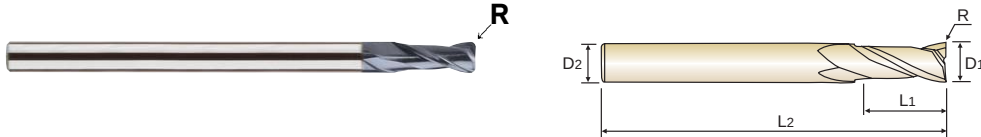
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE CORNER RADIUS (SHORT, REGULAR, LONG SHANK)

- Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- Available short, regular and long shank end mills.
- Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.



SEMD99 SERIES



P.98

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
★ SEMD9904002E	R0.2	4.0	6	10	70	Regular
★ SEMD9904003E	R0.3	4.0	6	10	70	Regular
★ SEMD9904005E	R0.5	4.0	6	10	70	Regular
★ SEMD9904010E	R1.0	4.0	6	10	70	Regular
SEMD9904501E	R0.1	4.5	6	11	80	-
SEMD9904502E	R0.2	4.5	6	11	80	-
SEMD9904503E	R0.3	4.5	6	11	80	-
SEMD9904505E	R0.5	4.5	6	11	80	-
SEMD9905001E	R0.1	5.0	6	13	90	-
★ SEMD9905002E	R0.2	5.0	6	13	90	-
★ SEMD9905003E	R0.3	5.0	6	13	90	-
★ SEMD9905005E	R0.5	5.0	6	13	90	-
★ SEMD9905010E	R1.0	5.0	6	13	90	-
SEMD9905501E	R0.1	5.5	6	13	90	-
SEMD9905502E	R0.2	5.5	6	13	90	-
SEMD9905503E	R0.3	5.5	6	13	90	-
SEMD9905505E	R0.5	5.5	6	13	90	-
SEMD9905510E	R1.0	5.5	6	13	90	-
★ SEMD9906002060E	R0.2	6.0	6	15	60	Short
★ SEMD9906003060E	R0.3	6.0	6	15	60	Short
★ SEMD9906005060E	R0.5	6.0	6	15	60	Short
★ SEMD9906010060E	R1.0	6.0	6	15	60	Short
SEMD9906001E	R0.1	6.0	6	15	90	Regular
★ SEMD9906002E	R0.2	6.0	6	15	90	Regular
★ SEMD9906003E	R0.3	6.0	6	15	90	Regular
★ SEMD9906005E	R0.5	6.0	6	15	90	Regular
★ SEMD9906010E	R1.0	6.0	6	15	90	Regular
SEMD9906015E	R1.5	6.0	6	15	90	Regular
SEMD9906020E	R2.0	6.0	6	15	90	Regular
SEMD9906005E	R0.5	6.0	6	15	110	Long Shank

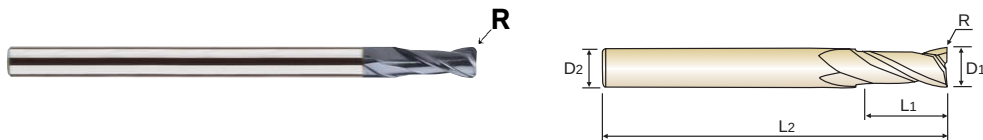
► ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE CORNER RADIUS (SHORT, REGULAR, LONG SHANK)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Available short, regular and long shank end mills.
- ▶ Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.



SEMD99 SERIES



P.98

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEMD9906010110E	R1.0	6.0	6	15	110	Long Shank
SEMD9906005130E	R0.5	6.0	6	15	130	Long Shank
SEMD9906010130E	R1.0	6.0	6	15	130	Long Shank
SEMD9907001E	R0.1	7.0	8	16	90	-
SEMD9907002E	R0.2	7.0	8	16	90	-
SEMD9907003E	R0.3	7.0	8	16	90	-
SEMD9907005E	R0.5	7.0	8	16	90	-
SEMD9907010E	R1.0	7.0	8	16	90	-
SEMD9907020E	R2.0	7.0	8	16	90	-
SEMD9908003070E	R0.3	8.0	8	20	70	Short
★ SEMD9908005070E	R0.5	8.0	8	20	70	Short
★ SEMD9908010070E	R1.0	8.0	8	20	70	Short
SEMD9908001E	R0.1	8.0	8	20	100	Regular
SEMD9908002E	R0.2	8.0	8	20	100	Regular
SEMD9908003E	R0.3	8.0	8	20	100	Regular
★ SEMD9908005E	R0.5	8.0	8	20	100	Regular
★ SEMD9908010E	R1.0	8.0	8	20	100	Regular
★ SEMD9908015E	R1.5	8.0	8	20	100	Regular
★ SEMD9908020E	R2.0	8.0	8	20	100	Regular
SEMD9908025E	R2.5	8.0	8	20	100	Regular
SEMD9908030E	R3.0	8.0	8	20	100	Regular
SEMD9908005120E	R0.5	8.0	8	20	120	Long Shank
SEMD9908010120E	R1.0	8.0	8	20	120	Long Shank
SEMD9908015150E	R0.5	8.0	8	20	150	Long Shank
SEMD9908010150E	R1.0	8.0	8	20	150	Long Shank
SEMD9910003075E	R0.3	10.0	10	25	75	Short
★ SEMD9910005075E	R0.5	10.0	10	25	75	Short
★ SEMD9910010075E	R1.0	10.0	10	25	75	Short
SEMD9910001E	R0.1	10.0	10	25	100	Regular
SEMD9910002E	R0.2	10.0	10	25	100	Regular

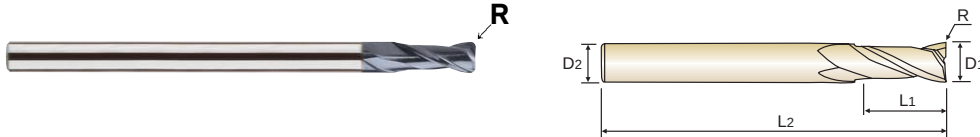
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE CORNER RADIUS (SHORT, REGULAR, LONG SHANK)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Available short, regular and long shank end mills.
- ▶ Available various corner radius end mills, from 0.02 mm to 5.0mm corner radius.



SEMD99 SERIES



P.98

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEMD9910003E	R0.3	10.0	10	25	100	Regular
★ SEMD9910005E	R0.5	10.0	10	25	100	Regular
★ SEMD9910010E	R1.0	10.0	10	25	100	Regular
★ SEMD9910015E	R1.5	10.0	10	25	100	Regular
★ SEMD9910020E	R2.0	10.0	10	25	100	Regular
SEMD9910025E	R2.5	10.0	10	25	100	Regular
SEMD9910030E	R3.0	10.0	10	25	100	Regular
SEMD9910040E	R4.0	10.0	10	25	100	Regular
SEMD9910005130E	R0.5	10.0	10	25	130	Long Shank
SEMD9910010130E	R1.0	10.0	10	25	130	Long Shank
SEMD9910005150E	R0.5	10.0	10	25	150	Long Shank
SEMD9910010150E	R1.0	10.0	10	25	150	Long Shank
SEMD9911002E	R0.2	11.0	12	25	110	-
SEMD9911003E	R0.3	11.0	12	25	110	-
SEMD9911005E	R0.5	11.0	12	25	110	-
SEMD9911010E	R1.0	11.0	12	25	110	-
SEMD9911020E	R2.0	11.0	12	25	110	-
SEMD9912003080E	R0.3	12.0	12	30	80	Short
★ SEMD9912005080E	R0.5	12.0	12	30	80	Short
★ SEMD9912010080E	R1.0	12.0	12	30	80	Short
SEMD9912001E	R0.1	12.0	12	30	110	Regular
SEMD9912002E	R0.2	12.0	12	30	110	Regular
SEMD9912003E	R0.3	12.0	12	30	110	Regular
★ SEMD9912005E	R0.5	12.0	12	30	110	Regular
★ SEMD9912010E	R1.0	12.0	12	30	110	Regular
★ SEMD9912015E	R1.5	12.0	12	30	110	Regular
★ SEMD9912020E	R2.0	12.0	12	30	110	Regular
★ SEMD9912025E	R2.5	12.0	12	30	110	Regular
★ SEMD9912030E	R3.0	12.0	12	30	110	Regular
SEMD9912040E	R4.0	12.0	12	30	110	Regular

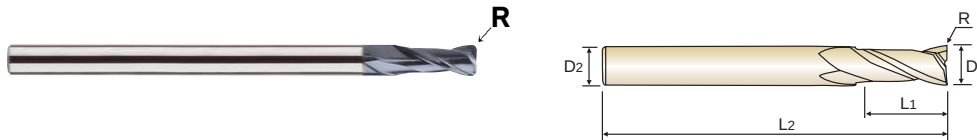
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE CORNER RADIUS (SHORT, REGULAR, LONG SHANK)

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SEMD99 SERIES



P.98

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEMD9912050E	R5.0	12.0	12	30	110	Regular
SEMD9912005130E	R0.5	12.0	12	30	130	Long Shank
SEMD9912010130E	R1.0	12.0	12	30	130	Long Shank
SEMD9912005150E	R0.5	12.0	12	30	150	Long Shank
SEMD9912010150E	R1.0	12.0	12	30	150	Long Shank
SEMD9914005E	R0.5	14.0	16	35	150	-
★ SEMD9914010E	R1.0	14.0	16	35	150	-
SEMD9914020E	R2.0	14.0	16	35	150	-
SEMD9916005E	R0.5	16.0	16	32	150	-
★ SEMD9916010E	R1.0	16.0	16	32	150	-
SEMD9916015E	R1.5	16.0	16	32	150	-
★ SEMD9916020E	R2.0	16.0	16	32	150	-
SEMD9920005E	R0.5	20.0	20	38	150	-
★ SEMD9920010E	R1.0	20.0	20	38	150	-
SEMD9920015E	R1.5	20.0	20	38	150	-
★ SEMD9920020E	R2.0	20.0	20	38	150	-

▶ ★ Stock Item

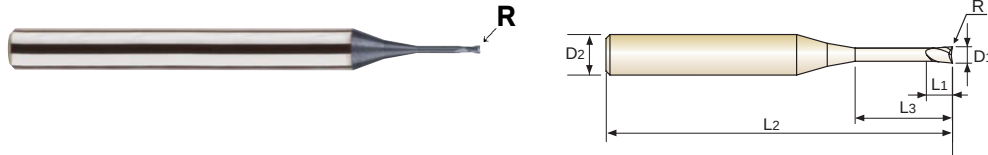
Size	Corner Radius Tolerance (mm)	Mill Dia. Tolerance (mm)	Shank Dia. Tolerance
up to Ø6	±0.010	0~-0.012	h6
over Ø6	±0.015	0~-0.015	

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS

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- ▶ Available various corner radius end mills, from min. 0.02mm corner radius to max. 2.0 mm corner radius.
- ▶ Available more various effective length and overall length end mills than previous standard products.



SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME61002002005E	R0.02	0.2	4	0.3	0.5	40	-
★ SEME6100200201E	R0.02	0.2	4	0.3	1	40	-
SEME61002002015E	R0.02	0.2	4	0.3	1.5	40	-
SEME6100200202E	R0.02	0.2	4	0.3	2	40	-
SEME61002005005E	R0.05	0.2	4	0.3	0.5	40	-
★ SEME6100200501E	R0.05	0.2	4	0.3	1	40	-
SEME61002005015E	R0.05	0.2	4	0.3	1.5	40	-
SEME6100200502E	R0.05	0.2	4	0.3	2	40	-
★ SEME6100300201E	R0.02	0.3	4	0.5	1	40	-
★ SEME6100300202E	R0.02	0.3	4	0.5	2	40	-
SEME6100300203E	R0.02	0.3	4	0.5	3	40	-
★ SEME6100300501E	R0.05	0.3	4	0.5	1	40	-
★ SEME6100300502E	R0.05	0.3	4	0.5	2	40	-
SEME6100300503E	R0.05	0.3	4	0.5	3	40	-
★ SEME6100400501E	R0.05	0.4	4	0.6	1	40	-
★ SEME61004005015E	R0.05	0.4	4	0.6	1.5	40	-
★ SEME6100400502E	R0.05	0.4	4	0.6	2	40	-
★ SEME61004005025E	R0.05	0.4	4	0.6	2.5	40	-
SEME6100400503E	R0.05	0.4	4	0.6	3	40	-
SEME6100400504E	R0.05	0.4	4	0.6	4	40	-
★ SEME610040101E	R0.1	0.4	4	0.6	1	40	-
SEME6100401015E	R0.1	0.4	4	0.6	1.5	40	-
★ SEME610040102E	R0.1	0.4	4	0.6	2	40	-
SEME6100401025E	R0.1	0.4	4	0.6	2.5	40	-
SEME610040103E	R0.1	0.4	4	0.6	3	40	-
SEME610040104E	R0.1	0.4	4	0.6	4	40	-
★ SEME6100500501E	R0.05	0.5	4	0.7	1	45	-
★ SEME61005005015E	R0.05	0.5	4	0.7	1.5	45	-
★ SEME6100500502E	R0.05	0.5	4	0.7	2	45	-
SEME61005005025E	R0.05	0.5	4	0.7	2.5	45	-

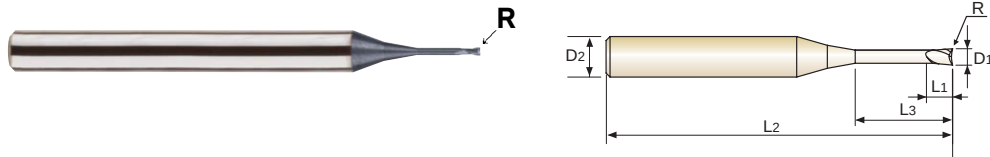
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

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- ▶ Available more various effective length and overall length end mills than previous standard products.



SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME6100500503E	R0.05	0.5	4	0.7	3	45	-
★ SEME6100500504E	R0.05	0.5	4	0.7	4	45	-
SEME6100500505E	R0.05	0.5	4	0.7	5	45	-
SEME6100500506E	R0.05	0.5	4	0.7	6	45	-
SEME610050101E	R0.1	0.5	4	0.7	1	45	-
SEME6100501015E	R0.1	0.5	4	0.7	1.5	45	-
★ SEME610050102E	R0.1	0.5	4	0.7	2	45	-
SEME6100501025E	R0.1	0.5	4	0.7	2.5	45	-
★ SEME610050103E	R0.1	0.5	4	0.7	3	45	-
SEME610050104E	R0.1	0.5	4	0.7	4	45	-
SEME610050105E	R0.1	0.5	4	0.7	5	45	-
SEME610050106E	R0.1	0.5	4	0.7	6	45	-
SEME6100600502E	R0.05	0.6	4	0.9	2	45	-
★ SEME6100600503E	R0.05	0.6	4	0.9	3	45	-
SEME6100600504E	R0.05	0.6	4	0.9	4	45	-
★ SEME6100600506E	R0.05	0.6	4	0.9	6	45	-
SEME6100600508E	R0.05	0.6	4	0.9	8	45	-
SEME6100600510E	R0.05	0.6	4	0.9	10	45	-
★ SEME610060102E	R0.1	0.6	4	0.9	2	45	-
SEME610060103E	R0.1	0.6	4	0.9	3	45	-
★ SEME610060104E	R0.1	0.6	4	0.9	4	45	-
★ SEME610060106E	R0.1	0.6	4	0.9	6	45	-
SEME610060108E	R0.1	0.6	4	0.9	8	45	-
SEME610060110E	R0.1	0.6	4	0.9	10	45	-
★ SEME610060202E	R0.2	0.6	4	0.9	2	45	-
SEME610060203E	R0.2	0.6	4	0.9	3	45	-
★ SEME610060204E	R0.2	0.6	4	0.9	4	45	-
★ SEME610060206E	R0.2	0.6	4	0.9	6	45	-
SEME610060208E	R0.2	0.6	4	0.9	8	45	-
SEME610060210E	R0.2	0.6	4	0.9	10	45	-

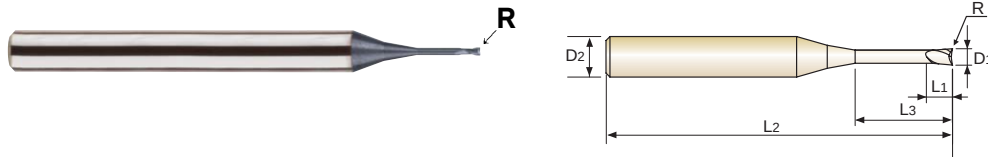
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

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SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME6100700502E	R0.05	0.7	4	1.2	2	45	-
SEME6100700504E	R0.05	0.7	4	1.2	4	45	-
SEME6100700506E	R0.05	0.7	4	1.2	6	45	-
SEME6100700508E	R0.05	0.7	4	1.2	8	45	-
SEME6100700510E	R0.05	0.7	4	1.2	10	45	-
SEME610070102E	R0.1	0.7	4	1.2	2	45	-
SEME610070104E	R0.1	0.7	4	1.2	4	45	-
SEME610070106E	R0.1	0.7	4	1.2	6	45	-
SEME610070108E	R0.1	0.7	4	1.2	8	45	-
SEME610070110E	R0.1	0.7	4	1.2	10	45	-
SEME610070202E	R0.2	0.7	4	1.2	2	45	-
SEME610070204E	R0.2	0.7	4	1.2	4	45	-
SEME610070206E	R0.2	0.7	4	1.2	6	45	-
SEME610070208E	R0.2	0.7	4	1.2	8	45	-
SEME610070210E	R0.2	0.7	4	1.2	10	45	-
★ SEME6100800502E	R0.05	0.8	4	1.2	2	45	-
SEME6100800503E	R0.05	0.8	4	1.2	3	45	-
★ SEME6100800504E	R0.05	0.8	4	1.2	4	45	-
★ SEME6100800506E	R0.05	0.8	4	1.2	6	45	-
SEME6100800508E	R0.05	0.8	4	1.2	8	45	-
SEME6100800510E	R0.05	0.8	4	1.2	10	45	-
★ SEME610080102E	R0.1	0.8	4	1.2	2	45	-
SEME610080103E	R0.1	0.8	4	1.2	3	45	-
★ SEME610080104E	R0.1	0.8	4	1.2	4	45	-
★ SEME610080106E	R0.1	0.8	4	1.2	6	45	-
★ SEME610080108E	R0.1	0.8	4	1.2	8	45	-
SEME610080110E	R0.1	0.8	4	1.2	10	45	-
SEME610080202E	R0.2	0.8	4	1.2	2	45	-
SEME610080203E	R0.2	0.8	4	1.2	3	45	-
★ SEME610080204E	R0.2	0.8	4	1.2	4	45	-

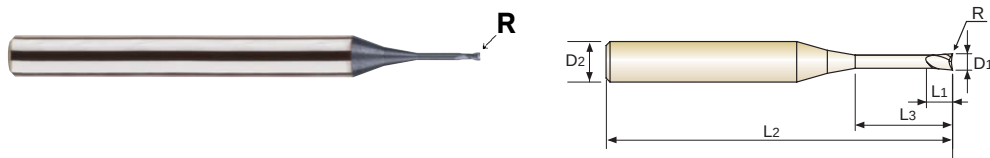
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

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SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
★ SEME610080206E	R0.2	0.8	4	1.2	6	45	-
★ SEME610080208E	R0.2	0.8	4	1.2	8	45	-
SEME610080210E	R0.2	0.8	4	1.2	10	45	-
★ SEME6101000503E	R0.05	1.0	4	1.5	3	50	-
★ SEME6101000504E	R0.05	1.0	4	1.5	4	50	-
★ SEME6101000506E	R0.05	1.0	4	1.5	6	50	-
SEME6101000508E	R0.05	1.0	4	1.5	8	50	-
SEME6101000510E	R0.05	1.0	4	1.5	10	50	-
SEME6101000512E	R0.05	1.0	4	1.5	12	50	-
SEME6101000514E	R0.05	1.0	4	1.5	14	50	-
SEME6101000516E	R0.05	1.0	4	1.5	16	50	-
SEME6101000520E	R0.05	1.0	4	1.5	20	50	-
★ SEME610100103E	R0.1	1.0	4	1.5	3	50	-
★ SEME610100104E	R0.1	1.0	4	1.5	4	50	-
★ SEME610100106E	R0.1	1.0	4	1.5	6	50	-
★ SEME610100108E	R0.1	1.0	4	1.5	8	50	-
★ SEME610100110E	R0.1	1.0	4	1.5	10	50	-
SEME610100112E	R0.1	1.0	4	1.5	12	50	-
SEME610100114E	R0.1	1.0	4	1.5	14	50	-
SEME610100116E	R0.1	1.0	4	1.5	16	50	-
SEME610100120E	R0.1	1.0	4	1.5	20	50	-
★ SEME610100203E	R0.2	1.0	4	1.5	3	50	-
★ SEME610100204E	R0.2	1.0	4	1.5	4	50	-
★ SEME610100206E	R0.2	1.0	4	1.5	6	50	-
★ SEME610100208E	R0.2	1.0	4	1.5	8	50	-
★ SEME610100210E	R0.2	1.0	4	1.5	10	50	-
SEME610100212E	R0.2	1.0	4	1.5	12	50	-
SEME610100214E	R0.2	1.0	4	1.5	14	50	-
SEME610100216E	R0.2	1.0	4	1.5	16	50	-
SEME610100220E	R0.2	1.0	4	1.5	20	50	-

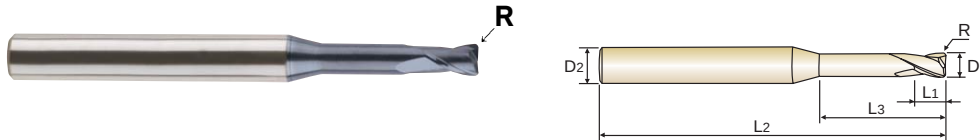
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
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SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME610100303E	R0.3	1.0	4	1.5	3	50	-
★ SEME610100304E	R0.3	1.0	4	1.5	4	50	-
★ SEME610100306E	R0.3	1.0	4	1.5	6	50	-
★ SEME610100308E	R0.3	1.0	4	1.5	8	50	-
★ SEME610100310E	R0.3	1.0	4	1.5	10	50	-
SEME610100312E	R0.3	1.0	4	1.5	12	50	-
SEME610100314E	R0.3	1.0	4	1.5	14	50	-
SEME610100316E	R0.3	1.0	4	1.5	16	50	-
SEME610100320E	R0.3	1.0	4	1.5	20	50	-
SEME6101200503E	R0.05	1.2	4	1.8	3	50	-
SEME6101200504E	R0.05	1.2	4	1.8	4	50	-
★ SEME6101200506E	R0.05	1.2	4	1.8	6	50	-
★ SEME6101200508E	R0.05	1.2	4	1.8	8	50	-
★ SEME6101200510E	R0.05	1.2	4	1.8	10	50	-
SEME6101200512E	R0.05	1.2	4	1.8	12	50	-
SEME6101200516E	R0.05	1.2	4	1.8	16	50	-
SEME6101200520E	R0.05	1.2	4	1.8	20	50	-
SEME610120103E	R0.1	1.2	4	1.8	3	50	-
★ SEME610120104E	R0.1	1.2	4	1.8	4	50	-
★ SEME610120106E	R0.1	1.2	4	1.8	6	50	-
★ SEME610120108E	R0.1	1.2	4	1.8	8	50	-
SEME610120110E	R0.1	1.2	4	1.8	10	50	-
SEME610120112E	R0.1	1.2	4	1.8	12	50	-
SEME610120116E	R0.1	1.2	4	1.8	16	50	-
SEME610120120E	R0.1	1.2	4	1.8	20	50	-
SEME610120203E	R0.2	1.2	4	1.8	3	50	-
★ SEME610120204E	R0.2	1.2	4	1.8	4	50	-
★ SEME610120206E	R0.2	1.2	4	1.8	6	50	-
★ SEME610120208E	R0.2	1.2	4	1.8	8	50	-
SEME610120210E	R0.2	1.2	4	1.8	10	50	-

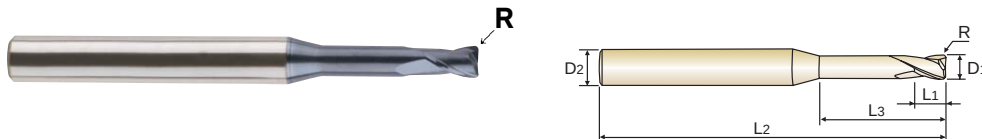
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

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SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME610120212E	R0.2	1.2	4	1.8	12	50	-
SEME610120216E	R0.2	1.2	4	1.8	16	50	-
SEME610120220E	R0.2	1.2	4	1.8	20	50	-
SEME610120303E	R0.3	1.2	4	1.8	3	50	-
★ SEME610120304E	R0.3	1.2	4	1.8	4	50	-
★ SEME610120306E	R0.3	1.2	4	1.8	6	50	-
★ SEME610120308E	R0.3	1.2	4	1.8	8	50	-
SEME610120310E	R0.3	1.2	4	1.8	10	50	-
SEME610120312E	R0.3	1.2	4	1.8	12	50	-
SEME610120316E	R0.3	1.2	4	1.8	16	50	-
SEME610120320E	R0.3	1.2	4	1.8	20	50	-
★ SEME6101500504E	R0.05	1.5	4	2.3	4	50	-
★ SEME6101500506E	R0.05	1.5	4	2.3	6	50	-
★ SEME6101500508E	R0.05	1.5	4	2.3	8	50	-
SEME6101500510E	R0.05	1.5	4	2.3	10	50	-
SEME6101500512E	R0.05	1.5	4	2.3	12	50	-
SEME6101500514E	R0.05	1.5	4	2.3	14	50	-
SEME6101500516E	R0.05	1.5	4	2.3	16	50	-
SEME6101500520E	R0.05	1.5	4	2.3	20	50	-
SEME6101500522E	R0.05	1.5	4	2.3	22	60	-
SEME6101500526E	R0.05	1.5	4	2.3	26	60	-
★ SEME610150104E	R0.1	1.5	4	2.3	4	50	-
★ SEME610150106E	R0.1	1.5	4	2.3	6	50	-
★ SEME610150108E	R0.1	1.5	4	2.3	8	50	-
SEME610150110E	R0.1	1.5	4	2.3	10	50	-
SEME610150112E	R0.1	1.5	4	2.3	12	50	-
SEME610150114E	R0.1	1.5	4	2.3	14	50	-
SEME610150116E	R0.1	1.5	4	2.3	16	50	-
SEME610150120E	R0.1	1.5	4	2.3	20	50	-
SEME610150122E	R0.1	1.5	4	2.3	22	60	-

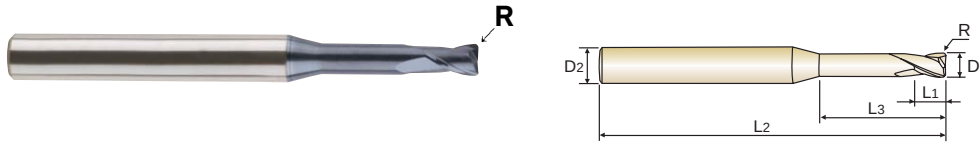
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

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SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME610150126E	R0.1	1.5	4	2.3	26	60	-
★ SEME610150204E	R0.2	1.5	4	2.3	4	50	-
★ SEME610150206E	R0.2	1.5	4	2.3	6	50	-
★ SEME610150208E	R0.2	1.5	4	2.3	8	50	-
★ SEME610150210E	R0.2	1.5	4	2.3	10	50	-
★ SEME610150212E	R0.2	1.5	4	2.3	12	50	-
SEME610150214E	R0.2	1.5	4	2.3	14	50	-
SEME610150216E	R0.2	1.5	4	2.3	16	50	-
SEME610150220E	R0.2	1.5	4	2.3	20	50	-
SEME610150222E	R0.2	1.5	4	2.3	22	60	-
SEME610150226E	R0.2	1.5	4	2.3	26	60	-
★ SEME610150304E	R0.3	1.5	4	2.3	4	50	-
★ SEME610150306E	R0.3	1.5	4	2.3	6	50	-
★ SEME610150308E	R0.3	1.5	4	2.3	8	50	-
★ SEME610150310E	R0.3	1.5	4	2.3	10	50	-
★ SEME610150312E	R0.3	1.5	4	2.3	12	50	-
SEME610150314E	R0.3	1.5	4	2.3	14	50	-
SEME610150316E	R0.3	1.5	4	2.3	16	50	-
SEME610150320E	R0.3	1.5	4	2.3	20	50	-
SEME610150322E	R0.3	1.5	4	2.3	22	60	-
SEME610150326E	R0.3	1.5	4	2.3	26	60	-
SEME610150504E	R0.5	1.5	4	2.3	4	50	-
SEME610150506E	R0.5	1.5	4	2.3	6	50	-
SEME610150508E	R0.5	1.5	4	2.3	8	50	-
SEME610150510E	R0.5	1.5	4	2.3	10	50	-
SEME610150512E	R0.5	1.5	4	2.3	12	50	-
SEME610150514E	R0.5	1.5	4	2.3	14	50	-
SEME610150516E	R0.5	1.5	4	2.3	16	50	-
SEME610150520E	R0.5	1.5	4	2.3	20	50	-
SEME610150522E	R0.5	1.5	4	2.3	22	60	-

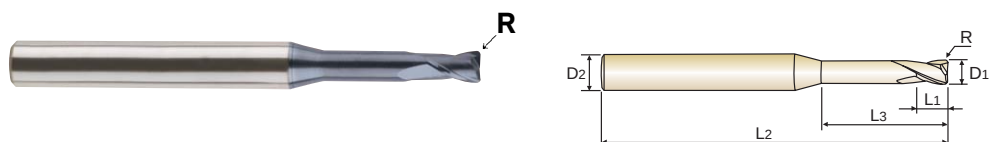
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
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SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME610150526E	R0.5	1.5	4	2.3	26	60	-
★ SEME610200106E	R0.1	2.0	4	3	6	50	-
★ SEME610200108E	R0.1	2.0	4	3	8	50	-
★ SEME610200110E	R0.1	2.0	4	3	10	50	-
★ SEME610200112E	R0.1	2.0	4	3	12	50	-
SEME610200114E	R0.1	2.0	4	3	14	50	-
SEME610200116E	R0.1	2.0	4	3	16	50	-
SEME610200120E	R0.1	2.0	4	3	20	50	-
SEME610200122E	R0.1	2.0	4	3	22	60	-
SEME610200126E	R0.1	2.0	4	3	26	60	-
SEME610200130E	R0.1	2.0	4	3	30	70	-
★ SEME610200206E	R0.2	2.0	4	3	6	50	-
★ SEME610200208E	R0.2	2.0	4	3	8	50	-
★ SEME610200210E	R0.2	2.0	4	3	10	50	-
★ SEME610200212E	R0.2	2.0	4	3	12	50	-
SEME610200214E	R0.2	2.0	4	3	14	50	-
★ SEME610200216E	R0.2	2.0	4	3	16	50	-
SEME610200220E	R0.2	2.0	4	3	20	50	-
SEME610200222E	R0.2	2.0	4	3	22	60	-
SEME610200226E	R0.2	2.0	4	3	26	60	-
SEME610200230E	R0.2	2.0	4	3	30	70	-
★ SEME610200306E	R0.3	2.0	4	3	6	50	-
★ SEME610200308E	R0.3	2.0	4	3	8	50	-
★ SEME610200310E	R0.3	2.0	4	3	10	50	-
★ SEME610200312E	R0.3	2.0	4	3	12	50	-
SEME610200314E	R0.3	2.0	4	3	14	50	-
★ SEME610200316E	R0.3	2.0	4	3	16	50	-
SEME610200320E	R0.3	2.0	4	3	20	50	-
SEME610200322E	R0.3	2.0	4	3	22	60	-
SEME610200326E	R0.3	2.0	4	3	26	60	-

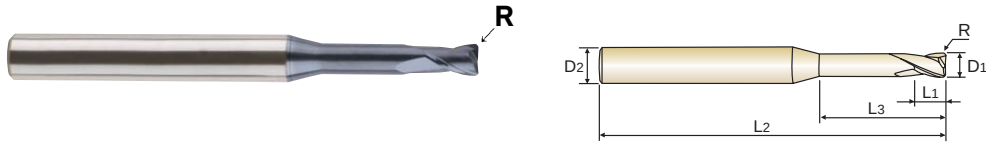
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
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SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME610200330E	R0.3	2.0	4	3	30	70	-
★ SEME610200506E	R0.5	2.0	4	3	6	50	-
★ SEME610200508E	R0.5	2.0	4	3	8	50	-
★ SEME610200510E	R0.5	2.0	4	3	10	50	-
★ SEME610200512E	R0.5	2.0	4	3	12	50	-
★ SEME610200514E	R0.5	2.0	4	3	14	50	-
SEME610200516E	R0.5	2.0	4	3	16	50	-
SEME610200520E	R0.5	2.0	4	3	20	50	-
SEME610200522E	R0.5	2.0	4	3	22	60	-
SEME610200526E	R0.5	2.0	4	3	26	60	-
SEME610200530E	R0.5	2.0	4	3	30	70	-
SEME610250108E	R0.1	2.5	4	4	8	50	-
SEME610250110E	R0.1	2.5	4	4	10	50	-
SEME610250112E	R0.1	2.5	4	4	12	50	-
SEME610250114E	R0.1	2.5	4	4	14	50	-
SEME610250116E	R0.1	2.5	4	4	16	50	-
SEME610250120E	R0.1	2.5	4	4	20	50	-
SEME610250126E	R0.1	2.5	4	4	26	60	-
SEME610250130E	R0.1	2.5	4	4	30	70	-
SEME610250208E	R0.2	2.5	4	4	8	50	-
SEME610250210E	R0.2	2.5	4	4	10	50	-
SEME610250212E	R0.2	2.5	4	4	12	50	-
SEME610250214E	R0.2	2.5	4	4	14	50	-
SEME610250216E	R0.2	2.5	4	4	16	50	-
SEME610250220E	R0.2	2.5	4	4	20	50	-
SEME610250226E	R0.2	2.5	4	4	26	60	-
SEME610250230E	R0.2	2.5	4	4	30	70	-
SEME610250308E	R0.3	2.5	4	4	8	50	-
SEME610250310E	R0.3	2.5	4	4	10	50	-
SEME610250312E	R0.3	2.5	4	4	12	50	-

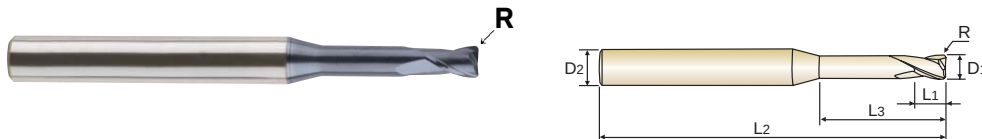
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
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◎	◎	◎	◎	○		○							

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SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME610250314E	R0.3	2.5	4	4	14	50	-
SEME610250316E	R0.3	2.5	4	4	16	50	-
SEME610250320E	R0.3	2.5	4	4	20	50	-
SEME610250326E	R0.3	2.5	4	4	26	60	-
SEME610250330E	R0.3	2.5	4	4	30	70	-
SEME610250508E	R0.5	2.5	6	4	8	50	-
SEME610250510E	R0.5	2.5	6	4	10	50	-
SEME610250512E	R0.5	2.5	6	4	12	50	-
SEME610250514E	R0.5	2.5	6	4	14	50	-
SEME610250516E	R0.5	2.5	6	4	16	50	-
SEME610250520E	R0.5	2.5	6	4	20	50	-
SEME610250526E	R0.5	2.5	6	4	26	60	-
SEME610250530E	R0.5	2.5	6	4	30	70	-
SEME610300108E	R0.1	3.0	6	4.5	8	50	-
★ SEME610300110E	R0.1	3.0	6	4.5	10	50	-
★ SEME610300112E	R0.1	3.0	6	4.5	12	50	-
SEME610300114E	R0.1	3.0	6	4.5	14	60	-
★ SEME610300116E	R0.1	3.0	6	4.5	16	60	-
SEME610300120E	R0.1	3.0	6	4.5	20	60	-
SEME610300126E	R0.1	3.0	6	4.5	26	65	-
SEME610300130E	R0.1	3.0	6	4.5	30	70	-
SEME610300135E	R0.1	3.0	6	4.5	35	70	-
SEME610300140E	R0.1	3.0	6	4.5	40	80	-
★ SEME610300208E	R0.2	3.0	6	4.5	8	50	-
★ SEME610300210E	R0.2	3.0	6	4.5	10	50	-
★ SEME610300212E	R0.2	3.0	6	4.5	12	50	-
SEME610300214E	R0.2	3.0	6	4.5	14	60	-
★ SEME610300216E	R0.2	3.0	6	4.5	16	60	-
★ SEME610300220E	R0.2	3.0	6	4.5	20	60	-
★ SEME610300226E	R0.2	3.0	6	4.5	26	65	-

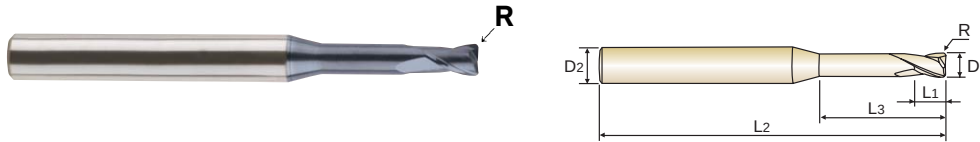
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Available various products like regular length and long shank end mills etc.
- ▶ Available various corner radius end mills, from min. 0.02mm corner radius to max. 2.0 mm corner radius.
- ▶ Available more various effective length and overall length end mills than previous standard products.



SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME610300230E	R0.2	3.0	6	4.5	30	70	-
SEME610300235E	R0.2	3.0	6	4.5	35	70	-
SEME610300240E	R0.2	3.0	6	4.5	40	80	-
★ SEME610300308E	R0.3	3.0	6	4.5	8	50	-
★ SEME610300310E	R0.3	3.0	6	4.5	10	50	-
★ SEME610300312E	R0.3	3.0	6	4.5	12	50	-
SEME610300314E	R0.3	3.0	6	4.5	14	60	-
★ SEME610300316E	R0.3	3.0	6	4.5	16	60	-
★ SEME610300320E	R0.3	3.0	6	4.5	20	60	-
SEME610300326E	R0.3	3.0	6	4.5	26	65	-
SEME610300330E	R0.3	3.0	6	4.5	30	70	-
SEME610300335E	R0.3	3.0	6	4.5	35	70	-
SEME610300340E	R0.3	3.0	6	4.5	40	80	-
★ SEME610300508E	R0.5	3.0	6	4.5	8	50	-
★ SEME610300510E	R0.5	3.0	6	4.5	10	50	-
★ SEME610300512E	R0.5	3.0	6	4.5	12	50	-
SEME610300514E	R0.5	3.0	6	4.5	14	60	-
★ SEME610300516E	R0.5	3.0	6	4.5	16	60	-
★ SEME610300520E	R0.5	3.0	6	4.5	20	60	-
★ SEME610300526E	R0.5	3.0	6	4.5	26	65	-
SEME610300530E	R0.5	3.0	6	4.5	30	70	-
SEME610300535E	R0.5	3.0	6	4.5	35	70	-
SEME610300540E	R0.5	3.0	6	4.5	40	80	-
★ SEME610301008E	R1.0	3.0	6	4.5	8	50	-
★ SEME610301010E	R1.0	3.0	6	4.5	10	50	-
★ SEME610301012E	R1.0	3.0	6	4.5	12	50	-
SEME610301014E	R1.0	3.0	6	4.5	14	60	-
★ SEME610301016E	R1.0	3.0	6	4.5	16	60	-
★ SEME610301020E	R1.0	3.0	6	4.5	20	60	-
SEME610301026E	R1.0	3.0	6	4.5	26	65	-

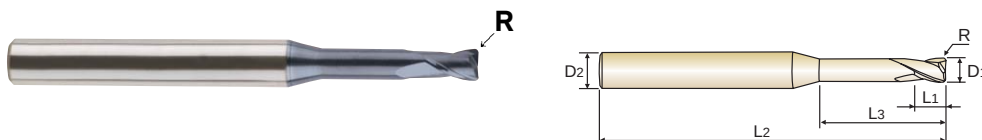
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Available various products like regular length and long shank end mills etc.
- ▶ Available various corner radius end mills, from min. 0.02mm corner radius to max. 2.0 mm corner radius.
- ▶ Available more various effective length and overall length end mills than previous standard products.



SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME610301030E	R1.0	3.0	6	4.5	30	70	-
SEME610301035E	R1.0	3.0	6	4.5	35	70	-
SEME610301040E	R1.0	3.0	6	4.5	40	80	-
★ SEME610400110E	R0.1	4.0	6	6	10	50	-
★ SEME610400112E	R0.1	4.0	6	6	12	50	-
SEME610400114E	R0.1	4.0	6	6	14	60	-
★ SEME610400116E	R0.1	4.0	6	6	16	60	-
SEME610400120E	R0.1	4.0	6	6	20	60	-
SEME610400126E	R0.1	4.0	6	6	26	65	-
SEME610400130E	R0.1	4.0	6	6	30	70	-
SEME610400135E	R0.1	4.0	6	6	35	70	-
SEME610400140E	R0.1	4.0	6	6	40	80	-
SEME610400145E	R0.1	4.0	6	6	45	90	-
SEME610400150E	R0.1	4.0	6	6	50	100	-
★ SEME610400210E	R0.2	4.0	6	6	10	50	-
★ SEME610400212E	R0.2	4.0	6	6	12	50	-
SEME610400214E	R0.2	4.0	6	6	14	60	-
★ SEME610400216E	R0.2	4.0	6	6	16	60	-
★ SEME610400220E	R0.2	4.0	6	6	20	60	-
★ SEME610400226E	R0.2	4.0	6	6	26	65	-
SEME610400230E	R0.2	4.0	6	6	30	70	-
SEME610400235E	R0.2	4.0	6	6	35	70	-
SEME610400240E	R0.2	4.0	6	6	40	80	-
SEME610400245E	R0.2	4.0	6	6	45	90	-
SEME610400250E	R0.2	4.0	6	6	50	100	-
SEME610400310E	R0.3	4.0	6	6	10	50	-
★ SEME610400312E	R0.3	4.0	6	6	12	50	-
SEME610400314E	R0.3	4.0	6	6	14	50	-
★ SEME610400316E	R0.3	4.0	6	6	16	50	-
★ SEME610400320E	R0.3	4.0	6	6	20	50	-

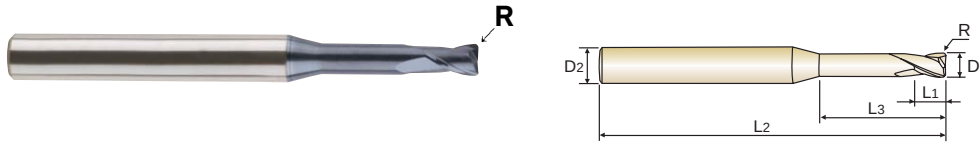
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

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- ▶ Available more various effective length and overall length end mills than previous standard products.



SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
★ SEME610400326E	R0.3	4.0	6	6	26	65	-
SEME610400330E	R0.3	4.0	6	6	30	70	-
SEME610400335E	R0.3	4.0	6	6	35	70	-
SEME610400340E	R0.3	4.0	6	6	40	80	-
SEME610400345E	R0.3	4.0	6	6	45	90	-
SEME610400350E	R0.3	4.0	6	6	50	100	-
★ SEME610400510E	R0.5	4.0	6	6	10	50	-
★ SEME610400512E	R0.5	4.0	6	6	12	50	-
SEME610400514E	R0.5	4.0	6	6	14	60	-
★ SEME610400516E	R0.5	4.0	6	6	16	60	-
★ SEME610400520E	R0.5	4.0	6	6	20	60	-
★ SEME610400526E	R0.5	4.0	6	6	26	65	-
★ SEME610400530E	R0.5	4.0	6	6	30	70	-
SEME610400535E	R0.5	4.0	6	6	35	70	-
SEME610400540E	R0.5	4.0	6	6	40	80	-
SEME610400545E	R0.5	4.0	6	6	45	90	-
SEME610400550E	R0.5	4.0	6	6	50	100	-
★ SEME610401010E	R1.0	4.0	6	6	10	50	-
★ SEME610401012E	R1.0	4.0	6	6	12	50	-
SEME610401014E	R1.0	4.0	6	6	14	60	-
★ SEME610401016E	R1.0	4.0	6	6	16	60	-
★ SEME610401020E	R1.0	4.0	6	6	20	60	-
SEME610401026E	R1.0	4.0	6	6	26	65	-
SEME610401030E	R1.0	4.0	6	6	30	70	-
SEME610401035E	R1.0	4.0	6	6	35	70	-
SEME610401040E	R1.0	4.0	6	6	40	80	-
SEME610401045E	R1.0	4.0	6	6	45	90	-
SEME610401050E	R1.0	4.0	6	6	50	100	-
SEME6105001E	R0.1	5.0	6	8	15	60	-
SEME6105002E	R0.2	5.0	6	8	15	60	-

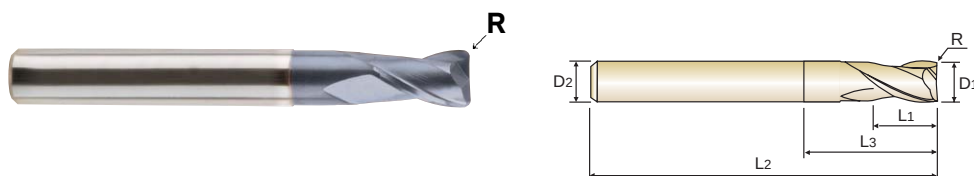
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
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- ▶ Available more various effective length and overall length end mills than previous standard products.



SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME6105003E	R0.3	5.0	6	8	15	60	-
SEME6105005E	R0.5	5.0	6	8	15	60	-
SEME6105010E	R1.0	5.0	6	8	15	60	-
SEME6105015E	R1.5	5.0	6	8	15	60	-
SEME6105020E	R2.0	5.0	6	8	15	60	-
SEME6106001E	R0.1	6.0	6	9	20	60	Regular
★ SEME6106002E	R0.2	6.0	6	9	20	60	Regular
★ SEME6106003E	R0.3	6.0	6	9	20	60	Regular
★ SEME6106005E	R0.5	6.0	6	9	20	60	Regular
★ SEME6106010E	R1.0	6.0	6	9	20	60	Regular
SEME6106015E	R1.5	6.0	6	9	20	60	Regular
SEME6106020E	R2.0	6.0	6	9	20	60	Regular
SEME6106003090E	R0.3	6.0	6	15	30	90	Long Shank
★ SEME6106005090E	R0.5	6.0	6	15	30	90	Long Shank
SEME6106010090E	R1.0	6.0	6	15	30	90	Long Shank
SEME6108001E	R0.1	8.0	8	12	25	70	Regular
★ SEME6108002E	R0.2	8.0	8	12	25	70	Regular
★ SEME6108003E	R0.3	8.0	8	12	25	70	Regular
★ SEME6108005E	R0.5	8.0	8	12	25	70	Regular
★ SEME6108010E	R1.0	8.0	8	12	25	70	Regular
SEME6108015E	R1.5	8.0	8	12	25	70	Regular
SEME6108020E	R2.0	8.0	8	12	25	70	Regular
SEME6108003100E	R0.3	8.0	8	20	35	100	Long Shank
SEME6108005100E	R0.5	8.0	8	20	35	100	Long Shank
SEME6108010100E	R1.0	8.0	8	20	35	100	Long Shank
SEME6110001E	R0.1	10.0	10	15	30	75	Regular
SEME6110002E	R0.2	10.0	10	15	30	75	Regular
★ SEME6110003E	R0.3	10.0	10	15	30	75	Regular
★ SEME6110005E	R0.5	10.0	10	15	30	75	Regular
★ SEME6110010E	R1.0	10.0	10	15	30	75	Regular

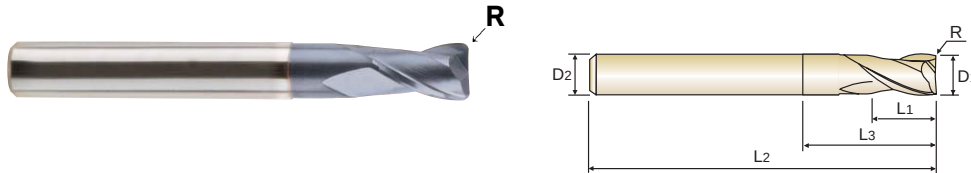
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Available various products like regular length and long shank end mills etc.
- ▶ Available various corner radius end mills, from min. 0.02mm corner radius to max. 2.0 mm corner radius.
- ▶ Available more various effective length and overall length end mills than previous standard products.



SEME61 SERIES



P.99~101

D ≤ 6

D > 6

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME6110015E	R1.5	10.0	10	15	30	75	Regular
SEME6110020E	R2.0	10.0	10	15	30	75	Regular
SEME6110003100E	R0.3	10.0	10	25	40	100	Long Shank
SEME6110005100E	R0.5	10.0	10	25	40	100	Long Shank
SEME6110010100E	R1.0	10.0	10	25	40	100	Long Shank
SEME6112002E	R0.2	12.0	12	18	32	80	Regular
SEME6112003E	R0.3	12.0	12	18	32	80	Regular
★ SEME6112005E	R0.5	12.0	12	18	32	80	Regular
★ SEME6112010E	R1.0	12.0	12	18	32	80	Regular
★ SEME6112015E	R1.5	12.0	12	18	32	80	Regular
SEME6112020E	R2.0	12.0	12	18	32	80	Regular
SEME6112003110E	R0.3	12.0	12	30	50	110	Long Shank
SEME6112005110E	R0.5	12.0	12	30	50	110	Long Shank
SEME6112010110E	R1.0	12.0	12	30	50	110	Long Shank
★ SEME6116005E	R0.5	16.0	16	20	35	100	Regular
★ SEME6116010E	R1.0	16.0	16	20	35	100	Regular
SEME6116005150E	R0.5	16.0	16	35	50	150	Long Shank
SEME6116010150E	R1.0	16.0	16	35	50	150	Long Shank
★ SEME6120005E	R0.5	20.0	20	25	40	100	Regular
★ SEME6120010E	R1.0	20.0	20	25	40	100	Regular
SEME6120005150E	R0.5	20.0	20	40	55	150	Long Shank
SEME6120010150E	R1.0	20.0	20	40	55	150	Long Shank

▶ ★ Stock Item

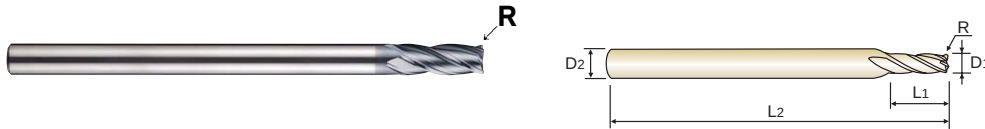
Size	Corner Radius Tolerance (mm)	Mill Dia. Tolerance (mm)	Shank Dia. Tolerance
up to Ø6	± 0.010	0 ~ -0.012	h6
over Ø6	± 0.015	0 ~ -0.015	

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE CORNER RADIUS (SHORT, REGULAR, LONG SHANK)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.
- ▶ Available various products like short, regular and long shank end mills etc.



SEME01 SERIES



P.102

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEME01010005E	R0.05	1.0	6	2.5	50	-
★ SEME0101001E	R0.1	1.0	6	2.5	50	-
SEME0101002E	R0.2	1.0	6	2.5	50	-
SEME0101003E	R0.3	1.0	6	2.5	50	-
SEME01012005E	R0.05	1.2	6	3	50	-
SEME0101201E	R0.1	1.2	6	3	50	-
SEME0101202E	R0.2	1.2	6	3	50	-
SEME0101203E	R0.3	1.2	6	3	50	-
SEME01015005E	R0.05	1.5	6	4	50	-
SEME0101501E	R0.1	1.5	6	4	50	-
SEME0101502E	R0.2	1.5	6	4	50	-
SEME0101503E	R0.3	1.5	6	4	50	-
SEME0101505E	R0.5	1.5	6	4	50	-
★ SEME0102001E	R0.1	2.0	6	6	50	-
★ SEME0102002E	R0.2	2.0	6	6	50	-
SEME0102003E	R0.3	2.0	6	6	50	-
SEME0102005E	R0.5	2.0	6	6	50	-
SEME0102501E	R0.1	2.5	6	7	60	-
SEME0102502E	R0.2	2.5	6	7	60	-
SEME0102503E	R0.3	2.5	6	7	60	-
SEME0102505E	R0.5	2.5	6	7	60	-
SEME0103001E	R0.1	3.0	6	8	60	-
★ SEME0103002E	R0.2	3.0	6	8	60	-
★ SEME0103003E	R0.3	3.0	6	8	60	-
★ SEME0103005E	R0.5	3.0	6	8	60	-
SEME0103010E	R1.0	3.0	6	8	60	-
SEME0103501E	R0.1	3.5	6	10	70	-
SEME0103502E	R0.2	3.5	6	10	70	-
SEME0103503E	R0.3	3.5	6	10	70	-
SEME0103505E	R0.5	3.5	6	10	70	-

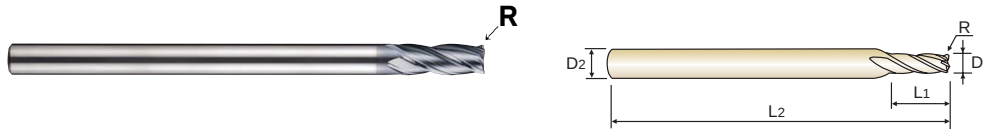
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE CORNER RADIUS (SHORT, REGULAR, LONG SHANK)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.
- ▶ Available various products like short, regular and long shank end mills etc.



SEME01 SERIES



P.102

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEME01040014SE	R0.1	4.0	4	10	70	4mm Shank
SEME01040024SE	R0.2	4.0	4	10	70	4mm Shank
SEME01040034SE	R0.3	4.0	4	10	70	4mm Shank
SEME01040054SE	R0.5	4.0	4	10	70	4mm Shank
SEME01040104SE	R1.0	4.0	4	10	70	4mm Shank
SEME01040011004SE	R0.1	4.0	4	10	100	4mm Shank
SEME01040021004SE	R0.2	4.0	4	10	100	4mm Shank
SEME01040031004SE	R0.3	4.0	4	10	100	4mm Shank
SEME01040051004SE	R0.5	4.0	4	10	100	4mm Shank
SEME01040101004SE	R1.0	4.0	4	10	100	4mm Shank
SEME0104001E	R0.1	4.0	6	10	70	Regular
★ SEME0104002E	R0.2	4.0	6	10	70	Regular
★ SEME0104003E	R0.3	4.0	6	10	70	Regular
★ SEME0104005E	R0.5	4.0	6	10	70	Regular
★ SEME0104010E	R1.0	4.0	6	10	70	Regular
SEME0104501E	R0.1	4.5	6	11	80	-
SEME0104502E	R0.2	4.5	6	11	80	-
SEME0104503E	R0.3	4.5	6	11	80	-
SEME0104505E	R0.5	4.5	6	11	80	-
SEME0105001E	R0.1	5.0	6	13	90	-
SEME0105002E	R0.2	5.0	6	13	90	-
★ SEME0105003E	R0.3	5.0	6	13	90	-
★ SEME0105005E	R0.5	5.0	6	13	90	-
SEME0105010E	R1.0	5.0	6	13	90	-
SEME0105501E	R0.1	5.5	6	13	90	-
SEME0105502E	R0.2	5.5	6	13	90	-
SEME0105503E	R0.3	5.5	6	13	90	-
SEME0105505E	R0.5	5.5	6	13	90	-
SEME0105510E	R1.0	5.5	6	13	90	-
SEME0106001060E	R0.1	6.0	6	15	60	Short

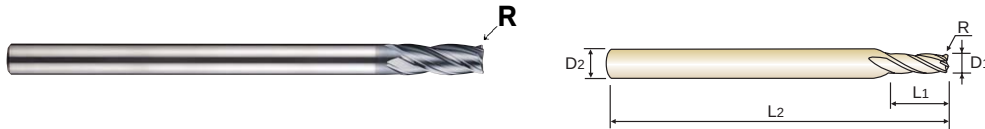
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE CORNER RADIUS (SHORT, REGULAR, LONG SHANK)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.
- ▶ Available various products like short, regular and long shank end mills etc.



SEME01 SERIES



P.102

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEME0106002060E	R0.2	6.0	6	15	60	Short
SEME0106001E	R0.1	6.0	6	15	90	Regular
★ SEME0106002E	R0.2	6.0	6	15	90	Regular
★ SEME0106003E	R0.3	6.0	6	15	90	Regular
★ SEME0106005E	R0.5	6.0	6	15	90	Regular
★ SEME0106010E	R1.0	6.0	6	15	90	Regular
SEME0106015E	R1.5	6.0	6	15	90	Regular
SEME0106020E	R2.0	6.0	6	15	90	Regular
SEME0106005110E	R0.5	6.0	6	15	110	Long Shank
SEME0106010110E	R1.0	6.0	6	15	110	Long Shank
SEME0106005130E	R0.5	6.0	6	15	130	Long Shank
SEME0106010130E	R1.0	6.0	6	15	130	Long Shank
SEME0107001E	R0.1	7.0	8	16	90	-
SEME0107002E	R0.2	7.0	8	16	90	-
SEME0107003E	R0.3	7.0	8	16	90	-
SEME0107005E	R0.5	7.0	8	16	90	-
SEME0107010E	R1.0	7.0	8	16	90	-
SEME0107020E	R2.0	7.0	8	16	90	-
★ SEME0108003070E	R0.3	8.0	8	20	70	Short
★ SEME0108005070E	R0.5	8.0	8	20	70	Short
★ SEME0108010070E	R1.0	8.0	8	20	70	Short
SEME0108001E	R0.1	8.0	8	20	100	Regular
★ SEME0108002E	R0.2	8.0	8	20	100	Regular
★ SEME0108003E	R0.3	8.0	8	20	100	Regular
★ SEME0108005E	R0.5	8.0	8	20	100	Regular
★ SEME0108010E	R1.0	8.0	8	20	100	Regular
★ SEME0108015E	R1.5	8.0	8	20	100	Regular
★ SEME0108020E	R2.0	8.0	8	20	100	Regular
SEME0108025E	R2.5	8.0	8	20	100	Regular
SEME0108030E	R3.0	8.0	8	20	100	Regular

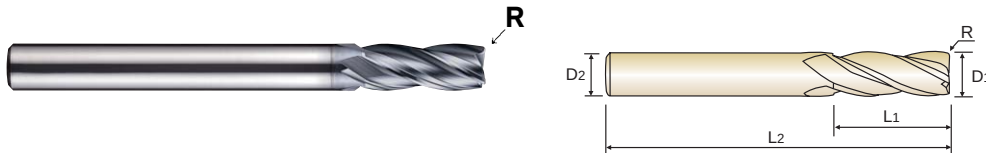
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE CORNER RADIUS (SHORT, REGULAR, LONG SHANK)

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- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
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- ▶ Available various products like short, regular and long shank end mills etc.



SEME01 SERIES



P.102

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEME0108005120E	R0.5	8.0	8	20	120	Long Shank
SEME0108010120E	R1.0	8.0	8	20	120	Long Shank
SEME0108005150E	R0.5	8.0	8	20	150	Long Shank
SEME0108010150E	R1.0	8.0	8	20	150	Long Shank
SEME0110003075E	R0.3	10.0	10	25	75	Short
★ SEME0110005075E	R0.5	10.0	10	25	75	Short
SEME0110010075E	R1.0	10.0	10	25	75	Short
SEME0110001E	R0.1	10.0	10	25	100	Regular
SEME0110002E	R0.2	10.0	10	25	100	Regular
★ SEME0110003E	R0.3	10.0	10	25	100	Regular
★ SEME0110005E	R0.5	10.0	10	25	100	Regular
★ SEME0110010E	R1.0	10.0	10	25	100	Regular
★ SEME0110015E	R1.5	10.0	10	25	100	Regular
★ SEME0110020E	R2.0	10.0	10	25	100	Regular
SEME0110025E	R2.5	10.0	10	25	100	Regular
SEME0110030E	R3.0	10.0	10	25	100	Regular
SEME0110040E	R4.0	10.0	10	25	100	Regular
SEME0110005130E	R0.5	10.0	10	22	130	Long Shank
SEME0110010130E	R1.0	10.0	10	22	130	Long Shank
SEME0110005150E	R0.5	10.0	10	22	150	Long Shank
SEME0110010150E	R1.0	10.0	10	22	150	Long Shank
SEME0111002E	R0.2	11.0	12	25	110	-
SEME0111003E	R0.3	11.0	12	25	110	-
SEME0111005E	R0.5	11.0	12	25	110	-
SEME0111010E	R1.0	11.0	12	25	110	-
SEME0111020E	R2.0	11.0	12	25	110	-
SEME0112003080E	R0.3	12.0	12	30	80	Short
★ SEME0112005080E	R0.5	12.0	12	30	80	Short
★ SEME0112010080E	R1.0	12.0	12	30	80	Short
SEME0112001E	R0.1	12.0	12	30	110	Regular

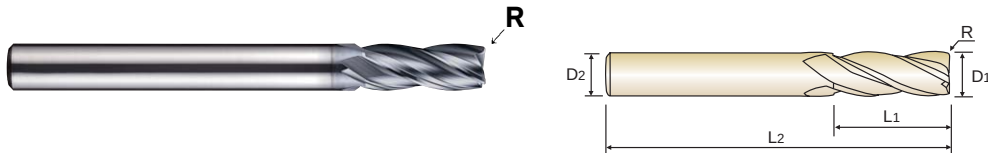
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE CORNER RADIUS (SHORT, REGULAR, LONG SHANK)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.
- ▶ Available various products like short, regular and long shank end mills etc.



SEME01 SERIES



P.102

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEME0112002E	R0.2	12.0	12	30	110	Regular
SEME0112003E	R0.3	12.0	12	30	110	Regular
★ SEME0112005E	R0.5	12.0	12	30	110	Regular
★ SEME0112010E	R1.0	12.0	12	30	110	Regular
★ SEME0112015E	R1.5	12.0	12	30	110	Regular
★ SEME0112020E	R2.0	12.0	12	30	110	Regular
SEME0112025E	R2.5	12.0	12	30	110	Regular
SEME0112030E	R3.0	12.0	12	30	110	Regular
SEME0112040E	R4.0	12.0	12	30	110	Regular
SEME0112050E	R5.0	12.0	12	30	110	Regular
SEME0112005130E	R0.5	12.0	12	30	130	Long Shank
SEME0112010130E	R1.0	12.0	12	30	130	Long Shank
SEME0112005150E	R0.5	12.0	12	30	130	Long Shank
SEME0112010150E	R1.0	12.0	12	30	130	Long Shank
SEME0114005E	R0.5	14.0	16	35	150	-
SEME0114010E	R1.0	14.0	16	35	150	-
SEME0114020E	R2.0	14.0	16	35	150	-
★ SEME0116005E	R0.5	16.0	16	32	150	-
★ SEME0116010E	R1.0	16.0	16	32	150	-
★ SEME0116015E	R1.5	16.0	16	32	150	-
★ SEME0116020E	R2.0	16.0	16	32	150	-
SEME0120005E	R0.5	20.0	20	38	150	-
★ SEME0120010E	R1.0	20.0	20	38	150	-
SEME0120015E	R1.5	20.0	20	38	150	-
★ SEME0120020E	R2.0	20.0	20	38	150	-

▶ ★ Stock Item

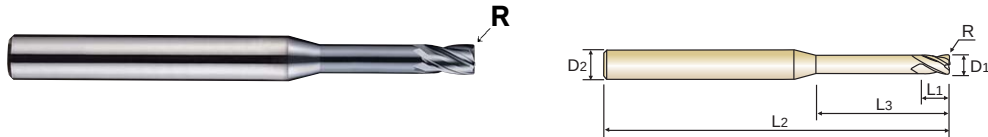
Mill Dia. Tolerance (mm)	Corner Radius Tolerance (mm)	Shank Dia. Tolerance
0~-0.03	±0.02	h6

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG NECK CORNER RADIUS

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.



SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME6401000503E	R0.05	1.0	4	1.5	3	50	-
SEME6401000504E	R0.05	1.0	4	1.5	4	50	-
SEME6401000506E	R0.05	1.0	4	1.5	6	50	-
SEME6401000508E	R0.05	1.0	4	1.5	8	50	-
SEME6401000510E	R0.05	1.0	4	1.5	10	50	-
SEME6401000512E	R0.05	1.0	4	1.5	12	50	-
SEME6401000514E	R0.05	1.0	4	1.5	14	50	-
SEME6401000516E	R0.05	1.0	4	1.5	16	50	-
SEME6401000520E	R0.05	1.0	4	1.5	20	50	-
SEME640100103E	R0.1	1.0	4	1.5	3	50	-
★ SEME640100104E	R0.1	1.0	4	1.5	4	50	-
★ SEME640100106E	R0.1	1.0	4	1.5	6	50	-
★ SEME640100108E	R0.1	1.0	4	1.5	8	50	-
SEME640100110E	R0.1	1.0	4	1.5	10	50	-
SEME640100112E	R0.1	1.0	4	1.5	12	50	-
SEME640100114E	R0.1	1.0	4	1.5	14	50	-
SEME640100116E	R0.1	1.0	4	1.5	16	50	-
SEME640100120E	R0.1	1.0	4	1.5	20	50	-
SEME640100203E	R0.2	1.0	4	1.5	3	50	-
★ SEME640100204E	R0.2	1.0	4	1.5	4	50	-
★ SEME640100206E	R0.2	1.0	4	1.5	6	50	-
★ SEME640100208E	R0.2	1.0	4	1.5	8	50	-
SEME640100210E	R0.2	1.0	4	1.5	10	50	-
SEME640100212E	R0.2	1.0	4	1.5	12	50	-
SEME640100214E	R0.2	1.0	4	1.5	14	50	-
SEME640100216E	R0.2	1.0	4	1.5	16	50	-
SEME640100220E	R0.2	1.0	4	1.5	20	50	-
SEME640100303E	R0.3	1.0	4	1.5	3	50	-
★ SEME640100304E	R0.3	1.0	4	1.5	4	50	-
★ SEME640100306E	R0.3	1.0	4	1.5	6	50	-

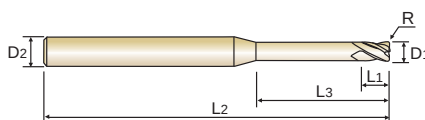
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG NECK CORNER RADIUS

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.



SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
★ SEME640100308E	R0.3	1.0	4	1.5	8	50	-
SEME640100310E	R0.3	1.0	4	1.5	10	50	-
SEME640100312E	R0.3	1.0	4	1.5	12	50	-
SEME640100314E	R0.3	1.0	4	1.5	14	50	-
SEME640100316E	R0.3	1.0	4	1.5	16	50	-
SEME640100320E	R0.3	1.0	4	1.5	20	50	-
SEME6401200503E	R0.05	1.2	4	1.8	3	50	-
SEME6401200504E	R0.05	1.2	4	1.8	4	50	-
SEME6401200506E	R0.05	1.2	4	1.8	6	50	-
SEME6401200508E	R0.05	1.2	4	1.8	8	50	-
SEME6401200510E	R0.05	1.2	4	1.8	10	50	-
SEME6401200512E	R0.05	1.2	4	1.8	12	50	-
SEME6401200516E	R0.05	1.2	4	1.8	16	50	-
SEME6401200520E	R0.05	1.2	4	1.8	20	50	-
SEME640120103E	R0.1	1.2	4	1.8	3	50	-
★ SEME640120104E	R0.1	1.2	4	1.8	4	50	-
★ SEME640120106E	R0.1	1.2	4	1.8	6	50	-
★ SEME640120108E	R0.1	1.2	4	1.8	8	50	-
SEME640120110E	R0.1	1.2	4	1.8	10	50	-
SEME640120112E	R0.1	1.2	4	1.8	12	50	-
SEME640120116E	R0.1	1.2	4	1.8	16	50	-
SEME640120120E	R0.1	1.2	4	1.8	20	50	-
SEME640120203E	R0.2	1.2	4	1.8	3	50	-
★ SEME640120204E	R0.2	1.2	4	1.8	4	50	-
★ SEME640120206E	R0.2	1.2	4	1.8	6	50	-
★ SEME640120208E	R0.2	1.2	4	1.8	8	50	-
SEME640120210E	R0.2	1.2	4	1.8	10	50	-
SEME640120212E	R0.2	1.2	4	1.8	12	50	-
SEME640120216E	R0.2	1.2	4	1.8	16	50	-
SEME640120220E	R0.2	1.2	4	1.8	20	50	-

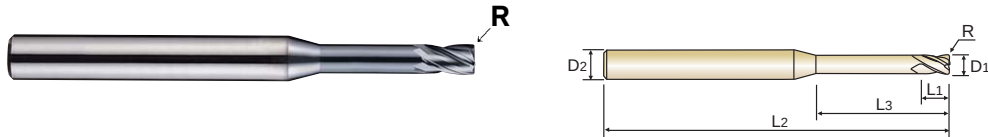
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG NECK CORNER RADIUS

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- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.



SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME640120303E	R0.3	1.2	4	1.8	3	50	-
★ SEME640120304E	R0.3	1.2	4	1.8	4	50	-
★ SEME640120306E	R0.3	1.2	4	1.8	6	50	-
★ SEME640120308E	R0.3	1.2	4	1.8	8	50	-
SEME640120310E	R0.3	1.2	4	1.8	10	50	-
SEME640120312E	R0.3	1.2	4	1.8	12	50	-
SEME640120316E	R0.3	1.2	4	1.8	16	50	-
SEME640120320E	R0.3	1.2	4	1.8	20	50	-
SEME6401500504E	R0.05	1.5	4	2.3	4	50	-
SEME6401500506E	R0.05	1.5	4	2.3	6	50	-
SEME6401500508E	R0.05	1.5	4	2.3	8	50	-
SEME6401500510E	R0.05	1.5	4	2.3	10	50	-
SEME6401500512E	R0.05	1.5	4	2.3	12	50	-
SEME6401500514E	R0.05	1.5	4	2.3	14	50	-
SEME6401500516E	R0.05	1.5	4	2.3	16	50	-
SEME6401500520E	R0.05	1.5	4	2.3	20	50	-
SEME6401500522E	R0.05	1.5	4	2.3	22	60	-
SEME6401500526E	R0.05	1.5	4	2.3	26	60	-
SEME640150104E	R0.1	1.5	4	2.3	4	50	-
★ SEME640150106E	R0.1	1.5	4	2.3	6	50	-
★ SEME640150108E	R0.1	1.5	4	2.3	8	50	-
★ SEME640150110E	R0.1	1.5	4	2.3	10	50	-
★ SEME640150112E	R0.1	1.5	4	2.3	12	50	-
SEME640150114E	R0.1	1.5	4	2.3	14	50	-
SEME640150116E	R0.1	1.5	4	2.3	16	50	-
SEME640150120E	R0.1	1.5	4	2.3	20	50	-
SEME640150122E	R0.1	1.5	4	2.3	22	60	-
SEME640150126E	R0.1	1.5	4	2.3	26	60	-
SEME640150204E	R0.2	1.5	4	2.3	4	50	-
★ SEME640150206E	R0.2	1.5	4	2.3	6	50	-

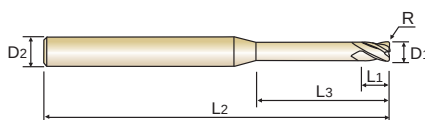
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG NECK CORNER RADIUS

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.



SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
★ SEME640150208E	R0.2	1.5	4	2.3	8	50	-
★ SEME640150210E	R0.2	1.5	4	2.3	10	50	-
★ SEME640150212E	R0.2	1.5	4	2.3	12	50	-
SEME640150214E	R0.2	1.5	4	2.3	14	50	-
SEME640150216E	R0.2	1.5	4	2.3	16	50	-
SEME640150220E	R0.2	1.5	4	2.3	20	50	-
SEME640150222E	R0.2	1.5	4	2.3	22	60	-
SEME640150226E	R0.2	1.5	4	2.3	26	60	-
SEME640150304E	R0.3	1.5	4	2.3	4	50	-
★ SEME640150306E	R0.3	1.5	4	2.3	6	50	-
★ SEME640150308E	R0.3	1.5	4	2.3	8	50	-
★ SEME640150310E	R0.3	1.5	4	2.3	10	50	-
★ SEME640150312E	R0.3	1.5	4	2.3	12	50	-
SEME640150314E	R0.3	1.5	4	2.3	14	50	-
SEME640150316E	R0.3	1.5	4	2.3	16	50	-
SEME640150320E	R0.3	1.5	4	2.3	20	50	-
SEME640150322E	R0.3	1.5	4	2.3	22	60	-
SEME640150326E	R0.3	1.5	4	2.3	26	60	-
SEME640150504E	R0.5	1.5	4	2.3	4	50	-
★ SEME640150506E	R0.5	1.5	4	2.3	6	50	-
★ SEME640150508E	R0.5	1.5	4	2.3	8	50	-
★ SEME640150510E	R0.5	1.5	4	2.3	10	50	-
★ SEME640150512E	R0.5	1.5	4	2.3	12	50	-
SEME640150514E	R0.5	1.5	4	2.3	14	50	-
SEME640150516E	R0.5	1.5	4	2.3	16	50	-
SEME640150520E	R0.5	1.5	4	2.3	20	50	-
SEME640150522E	R0.5	1.5	4	2.3	22	60	-
SEME640150526E	R0.5	1.5	4	2.3	26	60	-
★ SEME640200106E	R0.1	2.0	4	3	6	50	-
★ SEME640200108E	R0.1	2.0	4	3	8	50	-

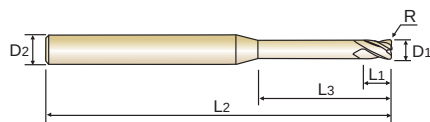
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

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SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
★ SEME640200110E	R0.1	2.0	4	3	10	50	-
★ SEME640200112E	R0.1	2.0	4	3	12	50	-
SEME640200114E	R0.1	2.0	4	3	14	50	-
SEME640200116E	R0.1	2.0	4	3	16	50	-
SEME640200120E	R0.1	2.0	4	3	20	50	-
SEME640200122E	R0.1	2.0	4	3	22	60	-
SEME640200126E	R0.1	2.0	4	3	26	60	-
SEME640200130E	R0.1	2.0	4	3	30	70	-
★ SEME640200206E	R0.2	2.0	4	3	6	50	-
★ SEME640200208E	R0.2	2.0	4	3	8	50	-
★ SEME640200210E	R0.2	2.0	4	3	10	50	-
★ SEME640200212E	R0.2	2.0	4	3	12	50	-
SEME640200214E	R0.2	2.0	4	3	14	50	-
SEME640200216E	R0.2	2.0	4	3	16	50	-
SEME640200220E	R0.2	2.0	4	3	20	50	-
SEME640200222E	R0.2	2.0	4	3	22	60	-
SEME640200226E	R0.2	2.0	4	3	26	60	-
SEME640200230E	R0.2	2.0	4	3	30	70	-
★ SEME640200306E	R0.3	2.0	4	3	6	50	-
★ SEME640200308E	R0.3	2.0	4	3	8	50	-
★ SEME640200310E	R0.3	2.0	4	3	10	50	-
★ SEME640200312E	R0.3	2.0	4	3	12	50	-
SEME640200314E	R0.3	2.0	4	3	14	50	-
SEME640200316E	R0.3	2.0	4	3	16	50	-
SEME640200320E	R0.3	2.0	4	3	20	50	-
SEME640200322E	R0.3	2.0	4	3	22	60	-
SEME640200326E	R0.3	2.0	4	3	26	60	-
SEME640200330E	R0.3	2.0	4	3	30	70	-
★ SEME640200506E	R0.5	2.0	4	3	6	50	-
★ SEME640200508E	R0.5	2.0	4	3	8	50	-

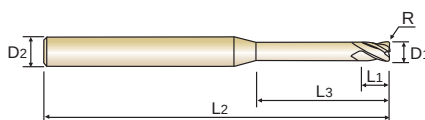
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

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SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
★ SEME640200510E	R0.5	2.0	4	3	10	50	-
★ SEME640200512E	R0.5	2.0	4	3	12	50	-
SEME640200514E	R0.5	2.0	4	3	14	50	-
SEME640200516E	R0.5	2.0	4	3	16	50	-
SEME640200520E	R0.5	2.0	4	3	20	50	-
SEME640200522E	R0.5	2.0	4	3	22	60	-
SEME640200526E	R0.5	2.0	4	3	26	60	-
SEME640200530E	R0.5	2.0	4	3	30	70	-
SEME640250108E	R0.1	2.5	4	4	8	50	-
SEME640250110E	R0.1	2.5	4	4	10	50	-
SEME640250112E	R0.1	2.5	4	4	12	50	-
SEME640250114E	R0.1	2.5	4	4	14	50	-
SEME640250116E	R0.1	2.5	4	4	16	50	-
SEME640250120E	R0.1	2.5	4	4	20	50	-
SEME640250126E	R0.1	2.5	4	4	26	60	-
SEME640250130E	R0.1	2.5	4	4	30	70	-
SEME640250208E	R0.2	2.5	4	4	8	50	-
SEME640250210E	R0.2	2.5	4	4	10	50	-
SEME640250212E	R0.2	2.5	4	4	12	50	-
SEME640250214E	R0.2	2.5	4	4	14	50	-
SEME640250216E	R0.2	2.5	4	4	16	50	-
SEME640250220E	R0.2	2.5	4	4	20	50	-
SEME640250226E	R0.2	2.5	4	4	26	60	-
SEME640250230E	R0.2	2.5	4	4	30	70	-
SEME640250308E	R0.3	2.5	4	4	8	50	-
SEME640250310E	R0.3	2.5	4	4	10	50	-
SEME640250312E	R0.3	2.5	4	4	12	50	-
SEME640250314E	R0.3	2.5	4	4	14	50	-
SEME640250316E	R0.3	2.5	4	4	16	50	-
SEME640250320E	R0.3	2.5	4	4	20	50	-

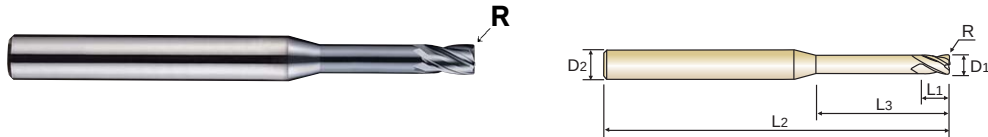
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG NECK CORNER RADIUS

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SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME640250326E	R0.3	2.5	4	4	26	60	-
SEME640250330E	R0.3	2.5	4	4	30	70	-
SEME640250508E	R0.5	2.5	4	4	8	50	-
SEME640250510E	R0.5	2.5	4	4	10	50	-
SEME640250512E	R0.5	2.5	4	4	12	50	-
SEME640250514E	R0.5	2.5	4	4	14	50	-
SEME640250516E	R0.5	2.5	4	4	16	50	-
SEME640250520E	R0.5	2.5	4	4	20	50	-
SEME640250526E	R0.5	2.5	4	4	26	60	-
SEME640250530E	R0.5	2.5	4	4	30	70	-
★ SEME640300108E	R0.1	3.0	6	4.5	8	50	-
★ SEME640300110E	R0.1	3.0	6	4.5	10	50	-
★ SEME640300112E	R0.1	3.0	6	4.5	12	50	-
SEME640300114E	R0.1	3.0	6	4.5	14	60	-
★ SEME640300116E	R0.1	3.0	6	4.5	16	60	-
SEME640300120E	R0.1	3.0	6	4.5	20	60	-
SEME640300126E	R0.1	3.0	6	4.5	26	65	-
SEME640300130E	R0.1	3.0	6	4.5	30	70	-
SEME640300135E	R0.1	3.0	6	4.5	35	70	-
SEME640300140E	R0.1	3.0	6	4.5	40	80	-
SEME640300208E	R0.2	3.0	6	4.5	8	50	-
★ SEME640300210E	R0.2	3.0	6	4.5	10	50	-
★ SEME640300212E	R0.2	3.0	6	4.5	12	50	-
SEME640300214E	R0.2	3.0	6	4.5	14	60	-
★ SEME640300216E	R0.2	3.0	6	4.5	16	60	-
★ SEME640300220E	R0.2	3.0	6	4.5	20	60	-
SEME640300226E	R0.2	3.0	6	4.5	26	65	-
SEME640300230E	R0.2	3.0	6	4.5	30	70	-
SEME640300235E	R0.2	3.0	6	4.5	35	70	-
SEME640300240E	R0.2	3.0	6	4.5	40	80	-

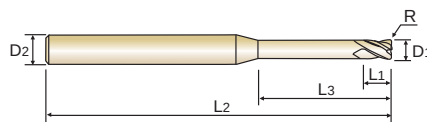
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

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SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
★ SEME640300308E	R0.3	3.0	6	4.5	8	50	-
★ SEME640300310E	R0.3	3.0	6	4.5	10	50	-
★ SEME640300312E	R0.3	3.0	6	4.5	12	50	-
SEME640300314E	R0.3	3.0	6	4.5	14	60	-
★ SEME640300316E	R0.3	3.0	6	4.5	16	60	-
★ SEME640300320E	R0.3	3.0	6	4.5	20	60	-
SEME640300326E	R0.3	3.0	6	4.5	26	65	-
SEME640300330E	R0.3	3.0	6	4.5	30	70	-
SEME640300335E	R0.3	3.0	6	4.5	35	70	-
SEME640300340E	R0.3	3.0	6	4.5	40	80	-
★ SEME640300508E	R0.5	3.0	6	4.5	8	50	-
★ SEME640300510E	R0.5	3.0	6	4.5	10	50	-
★ SEME640300512E	R0.5	3.0	6	4.5	12	50	-
SEME640300514E	R0.5	3.0	6	4.5	14	60	-
★ SEME640300516E	R0.5	3.0	6	4.5	16	60	-
★ SEME640300520E	R0.5	3.0	6	4.5	20	60	-
★ SEME640300526E	R0.5	3.0	6	4.5	26	65	-
SEME640300530E	R0.5	3.0	6	4.5	30	70	-
SEME640300535E	R0.5	3.0	6	4.5	35	70	-
SEME640300540E	R0.5	3.0	6	4.5	40	80	-
★ SEME640301008E	R1.0	3.0	6	4.5	8	50	-
★ SEME640301010E	R1.0	3.0	6	4.5	10	50	-
★ SEME640301012E	R1.0	3.0	6	4.5	12	50	-
SEME640301014E	R1.0	3.0	6	4.5	14	60	-
★ SEME640301016E	R1.0	3.0	6	4.5	16	60	-
SEME640301020E	R1.0	3.0	6	4.5	20	60	-
SEME640301026E	R1.0	3.0	6	4.5	26	65	-
SEME640301030E	R1.0	3.0	6	4.5	30	70	-
SEME640301035E	R1.0	3.0	6	4.5	35	70	-
SEME640301040E	R1.0	3.0	6	4.5	40	80	-

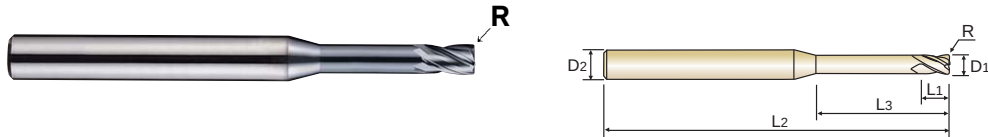
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

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SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
★ SEME640400110E	R0.1	4.0	6	6	10	50	-
★ SEME640400112E	R0.1	4.0	6	6	12	50	-
SEME640400114E	R0.1	4.0	6	6	14	60	-
★ SEME640400116E	R0.1	4.0	6	6	16	60	-
★ SEME640400120E	R0.1	4.0	6	6	20	60	-
SEME640400126E	R0.1	4.0	6	6	26	65	-
SEME640400130E	R0.1	4.0	6	6	30	70	-
SEME640400135E	R0.1	4.0	6	6	35	70	-
SEME640400140E	R0.1	4.0	6	6	40	80	-
SEME640400145E	R0.1	4.0	6	6	45	90	-
SEME640400150E	R0.1	4.0	6	6	50	100	-
★ SEME640400210E	R0.2	4.0	6	6	10	50	-
★ SEME640400212E	R0.2	4.0	6	6	12	50	-
SEME640400214E	R0.2	4.0	6	6	14	60	-
★ SEME640400216E	R0.2	4.0	6	6	16	60	-
★ SEME640400220E	R0.2	4.0	6	6	20	60	-
★ SEME640400226E	R0.2	4.0	6	6	26	65	-
SEME640400230E	R0.2	4.0	6	6	30	70	-
SEME640400235E	R0.2	4.0	6	6	35	70	-
SEME640400240E	R0.2	4.0	6	6	40	80	-
SEME640400245E	R0.2	4.0	6	6	45	90	-
SEME640400250E	R0.2	4.0	6	6	50	100	-
★ SEME640400310E	R0.3	4.0	6	6	10	50	-
★ SEME640400312E	R0.3	4.0	6	6	12	50	-
SEME640400314E	R0.3	4.0	6	6	14	60	-
★ SEME640400316E	R0.3	4.0	6	6	16	60	-
★ SEME640400320E	R0.3	4.0	6	6	20	60	-
★ SEME640400326E	R0.3	4.0	6	6	26	65	-
SEME640400330E	R0.3	4.0	6	6	30	70	-
SEME640400335E	R0.3	4.0	6	6	35	70	-

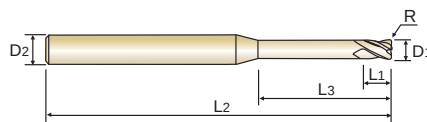
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG NECK CORNER RADIUS

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.



SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME640400340E	R0.3	4.0	6	6	40	80	-
SEME640400345E	R0.3	4.0	6	6	45	90	-
SEME640400350E	R0.3	4.0	6	6	50	100	-
★ SEME640400510E	R0.5	4.0	6	6	10	50	-
★ SEME640400512E	R0.5	4.0	6	6	12	50	-
SEME640400514E	R0.5	4.0	6	6	14	60	-
★ SEME640400516E	R0.5	4.0	6	6	16	60	-
★ SEME640400520E	R0.5	4.0	6	6	20	60	-
★ SEME640400526E	R0.5	4.0	6	6	26	65	-
SEME640400530E	R0.5	4.0	6	6	30	70	-
SEME640400535E	R0.5	4.0	6	6	35	70	-
SEME640400540E	R0.5	4.0	6	6	40	80	-
SEME640400545E	R0.5	4.0	6	6	45	90	-
SEME640400550E	R0.5	4.0	6	6	50	100	-
★ SEME640401010E	R1.0	4.0	6	6	10	50	-
★ SEME640401012E	R1.0	4.0	6	6	12	50	-
SEME640401014E	R1.0	4.0	6	6	14	60	-
★ SEME640401016E	R1.0	4.0	6	6	16	60	-
★ SEME640401020E	R1.0	4.0	6	6	20	60	-
★ SEME640401026E	R1.0	4.0	6	6	26	65	-
SEME640401030E	R1.0	4.0	6	6	30	70	-
SEME640401035E	R1.0	4.0	6	6	35	70	-
SEME640401040E	R1.0	4.0	6	6	40	80	-
SEME640401045E	R1.0	4.0	6	6	45	90	-
SEME640401050E	R1.0	4.0	6	6	50	100	-
SEME6405001E	R0.1	5.0	6	8	15	60	-
SEME6405002E	R0.2	5.0	6	8	15	60	-
SEME6405003E	R0.3	5.0	6	8	15	60	-
SEME6405005E	R0.5	5.0	6	8	15	60	-
SEME6405010E	R1.0	5.0	6	8	15	60	-

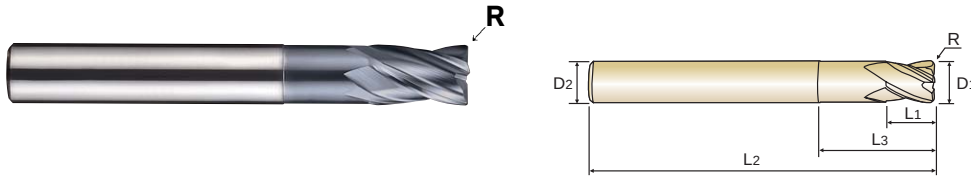
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG NECK CORNER RADIUS

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.



SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
SEME6405015E	R1.5	5.0	6	8	15	60	-
SEME6405020E	R2.0	5.0	6	8	15	60	-
SEME6406001E	R0.1	6.0	6	9	20	60	Regular
SEME6406002E	R0.2	6.0	6	9	20	60	Regular
★ SEME6406003E	R0.3	6.0	6	9	20	60	Regular
★ SEME6406005E	R0.5	6.0	6	9	20	60	Regular
★ SEME6406010E	R1.0	6.0	6	9	20	60	Regular
SEME6406015E	R1.5	6.0	6	9	20	60	Regular
SEME6406020E	R2.0	6.0	6	9	20	60	Regular
SEME6406003090E	R0.3	6.0	6	15	30	90	Long Shank
SEME6406005090E	R0.5	6.0	6	15	30	90	Long Shank
SEME6406010090E	R1.0	6.0	6	15	30	90	Long Shank
SEME6408001E	R0.1	8.0	8	12	25	70	Regular
★ SEME6408002E	R0.2	8.0	8	12	25	70	Regular
★ SEME6408003E	R0.3	8.0	8	12	25	70	Regular
★ SEME6408005E	R0.5	8.0	8	12	25	70	Regular
★ SEME6408010E	R1.0	8.0	8	12	25	70	Regular
SEME6408015E	R1.5	8.0	8	12	25	70	Regular
SEME6408020E	R2.0	8.0	8	12	25	70	Regular
SEME6408003100E	R0.3	8.0	8	20	35	100	Long Shank
★ SEME6408005100E	R0.5	8.0	8	20	35	100	Long Shank
SEME6408010100E	R1.0	8.0	8	20	35	100	Long Shank
SEME6410001E	R0.1	10.0	10	15	30	75	Regular
SEME6410002E	R0.2	10.0	10	15	30	75	Regular
SEME6410003E	R0.3	10.0	10	15	30	75	Regular
★ SEME6410005E	R0.5	10.0	10	15	30	75	Regular
★ SEME6410010E	R1.0	10.0	10	15	30	75	Regular
★ SEME6410015E	R1.5	10.0	10	15	30	75	Regular
SEME6410020E	R2.0	10.0	10	15	30	75	Regular
SEME6410003100E	R0.3	10.0	10	25	40	100	Long Shank

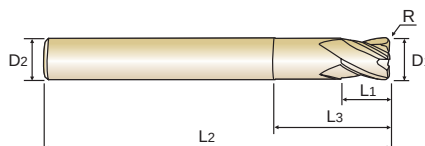
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG NECK CORNER RADIUS

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.



SEME64 SERIES



P.103~104

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2	Remark
★ SEME6410005100E	R0.5	10.0	10	25	40	100	Long Shank
SEME6410010100E	R1.0	10.0	10	25	40	100	Long Shank
SEME6412002E	R0.2	12.0	12	18	32	80	Regular
SEME6412003E	R0.3	12.0	12	18	32	80	Regular
★ SEME6412005E	R0.5	12.0	12	18	32	80	Regular
★ SEME6412010E	R1.0	12.0	12	18	32	80	Regular
★ SEME6412015E	R1.5	12.0	12	18	32	80	Regular
★ SEME6412020E	R2.0	12.0	12	18	32	80	Regular
SEME6412003110E	R0.3	12.0	12	30	45	110	Long Shank
★ SEME6412005110E	R0.5	12.0	12	30	45	110	Long Shank
SEME6412010110E	R1.0	12.0	12	30	45	110	Long Shank
★ SEME6416005E	R0.5	16.0	16	20	35	100	Regular
★ SEME6416010E	R1.0	16.0	16	20	35	100	Regular
SEME6416005150E	R0.5	16.0	20	35	50	150	Long Shank
SEME6416010150E	R1.0	16.0	20	35	50	150	Long Shank
★ SEME6420005E	R0.5	20.0	20	25	40	100	Regular
★ SEME6420010E	R1.0	20.0	20	25	40	100	Regular
SEME6420005150E	R0.5	20.0	20	40	55	150	Long Shank
SEME6420010150E	R1.0	20.0	20	40	55	150	Long Shank

▶ ★ Stock Item

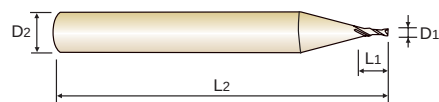
Mill Dia. Tolerance (mm)	Corner Radius Tolerance (mm)	Shank Dia. Tolerance
0~-0.03	±0.02	h6

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to sharp edge geometry at end tooth, cutting ability at working is increased.



SEME35 SERIES



P.105

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2
SEME350003E	0.03	4	0.04	40
SEME350004E	0.04	4	0.06	40
SEME350005E	0.05	4	0.07	40
SEME350006E	0.06	4	0.09	40
SEME350007E	0.07	4	0.1	40
SEME35 0008E	0.08	4	0.12	40
SEME350009E	0.09	4	0.13	40
★ SEME35001E	0.1	4	0.2	40
SEME350015E	0.15	4	0.3	40
★ SEME35002E	0.2	4	0.4	40
SEME350025E	0.25	4	0.5	40
★ SEME35003E	0.3	4	0.6	40
SEME350035E	0.35	4	0.7	40
★ SEME35004E	0.4	4	0.8	40
SEME350045E	0.45	4	0.9	40
★ SEME35005E	0.5	4	1.0	40
SEME350055E	0.55	4	1.1	40
★ SEME35006E	0.6	4	1.2	40
SEME350065E	0.65	4	1.3	40
★ SEME35007E	0.7	4	1.4	40
SEME350075E	0.75	4	1.5	40
★ SEME35008E	0.8	4	1.6	40
SEME350085E	0.85	4	1.7	40
★ SEME35009E	0.9	4	1.8	40
SEME350095E	0.95	4	2	40
★ SEME35010E	1.0	6	2.5	50
★ SEME35012E	1.2	6	3	50

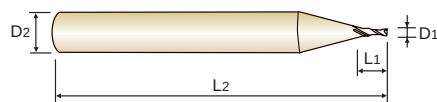
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 2 FLUTE

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to sharp edge geometry at end tooth, cutting ability at working is increased.



SEME35 SERIES



P.105

Unit : mm

EDP No.	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	D1	D2	L1	L2
★ SEME35015E	1.5	6	4	50
★ SEME35020E	2.0	6	6	50
★ SEME35025E	2.5	6	7	50
★ SEME35030E	3.0	6	8	50
★ SEME35035E	3.5	6	10	50
★ SEME35040E	4.0	6	10	50
★ SEME35045E	4.5	6	14	50
★ SEME35050E	5.0	6	15	60
SEME35055E	5.5	6	15	60
★ SEME35060E	6.0	6	15	60
★ SEME35065E	6.5	8	18	60
★ SEME35070E	7.0	8	20	60
SEME35075E	7.5	8	20	60
★ SEME35080E	8.0	8	20	70
★ SEME35085E	8.5	10	22	70
★ SEME35090E	9.0	10	22	70
★ SEME35095E	9.5	10	24	70
★ SEME35100E	10.0	10	25	75
★ SEME35105E	10.5	12	26	75
★ SEME35110E	11.0	12	30	75
SEME35115E	11.5	12	30	80
★ SEME35120E	12.0	12	30	80
★ SEME35130E	13.0	12	35	100
SEME3514012SE	14.0	12	35	100
★ SEME3514014SE	14.0	14	35	100
★ SEME35140E	14.0	16	35	100
★ SEME35150E	15.0	16	38	100

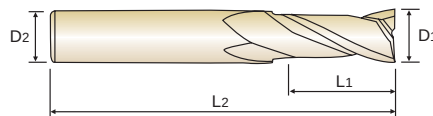
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 2 FLUTE

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to sharp edge geometry at end tooth, cutting ability at working is increased.



SEME35 SERIES



P.105

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2
★ SEME35160E	16.0	16	40	100
SEME35170E	17.0	16	42	100
★ SEME35180E	18.0	16	45	100
SEME3518018SE	18.0	18	45	100
SEME35190E	19.0	20	45	100
★ SEME35200E	20.0	20	45	100
SEME35210E	21.0	20	45	100
SEME35220E	22.0	20	45	100
SEME35230E	23.0	25	50	120
SEME35240E	24.0	25	50	120
SEME35250E	25.0	25	50	120

▶ ★ Stock Item

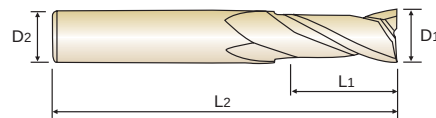
Size	Mill Dia. Tolerance (mm)	Shank Dia. Tolerance
up to Ø6	0~-0.012	h6
over Ø6	0~-0.015	

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 2 FLUTE (0.1mm a Unit / 4mm Shank)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to sharp edge geometry at end tooth, cutting ability at working is increased.



SEME35 SERIES



P.105

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2
★ SEME350104SE	1.0	4	2.5	50
SEME350114SE	1.1	4	3	50
★ SEME350124SE	1.2	4	3	50
★ SEME350134SE	1.3	4	3	50
★ SEME350144SE	1.4	4	4	50
★ SEME350154SE	1.5	4	4	50
★ SEME350164SE	1.6	4	4	50
SEME350174SE	1.7	4	4	50
★ SEME350184SE	1.8	4	5	50
SEME350194SE	1.9	4	5	50
★ SEME350204SE	2.0	4	6	50
SEME350214SE	2.1	4	6	50
★ SEME350224SE	2.2	4	6	50
SEME350234SE	2.3	4	6	50
★ SEME350244SE	2.4	4	6	50
★ SEME350254SE	2.5	4	8	50
★ SEME350264SE	2.6	4	8	50
★ SEME350274SE	2.7	4	8	50
★ SEME350284SE	2.8	4	8	50
SEME350294SE	2.9	4	8	50
★ SEME350304SE	3.0	4	8	50
SEME350354SE	3.5	4	10	50
SEME350404SE	4.0	4	10	50
SEME350404S080E	4.0	4	10	80

▶ ★ Stock Item

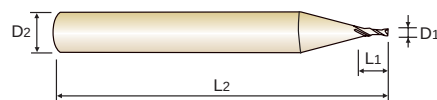
Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.012	h6

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 2 FLUTE (3mm Shank)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to sharp edge geometry at end tooth, cutting ability at working is increased.



SEME35 SERIES



P.105

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2
★ SEME350013SE	0.1	3	0.2	40
★ SEME350023SE	0.2	3	0.4	40
★ SEME350033SE	0.3	3	0.6	40
★ SEME350043SE	0.4	3	0.8	40
★ SEME350053SE	0.5	3	1.0	40
★ SEME350063SE	0.6	3	1.2	40
★ SEME350073SE	0.7	3	1.4	40
★ SEME350083SE	0.8	3	1.6	40
★ SEME350093SE	0.9	3	1.8	40
★ SEME350103SE	1.0	3	2.5	50
★ SEME350123SE	1.2	3	3	50
★ SEME350153SE	1.5	3	4	50
★ SEME350203SE	2.0	3	6	50
★ SEME350253SE	2.5	3	7	50
★ SEME350303SE	3.0	3	8	50

▶ ★ Stock Item

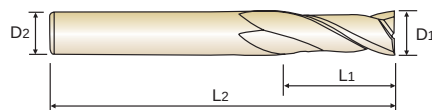
Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.012	h6

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 2 FLUTE LONG LENGTH

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available various length of cut and overall length end mills.



SEME70 SERIES



P.106~107

Unit : mm

EDP No.	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	D1	D2	L1	L2
★ SEME7001003E	1.0	6	3	60
★ SEME7001004E	1.0	6	4	60
SEME7001005E	1.0	6	5	60
★ SEME7001006E	1.0	6	6	60
SEME7001007E	1.0	6	7	60
★ SEME7001008E	1.0	6	8	60
★ SEME7001010E	1.0	6	10	60
SEME7001012E	1.0	6	12	60
SEME7001204E	1.2	6	4	60
SEME7001206E	1.2	6	6	60
SEME7001208E	1.2	6	8	60
SEME7001210E	1.2	6	10	60
SEME7001212E	1.2	6	12	60
★ SEME7001506E	1.5	6	6	60
★ SEME7001508E	1.5	6	8	60
★ SEME7001510E	1.5	6	10	60
★ SEME7001512E	1.5	6	12	60
SEME7001514E	1.5	6	14	60
★ SEME7001516E	1.5	6	16	60
★ SEME7002008E	2.0	6	8	60
★ SEME7002010E	2.0	6	10	60
★ SEME7002012E	2.0	6	12	60
SEME7002014E	2.0	6	14	60
★ SEME7002016E	2.0	6	16	60
SEME7002510E	2.5	6	10	60
SEME7002512E	2.5	6	12	60
★ SEME7002516E	2.5	6	16	60
SEME7002520E	2.5	6	20	60

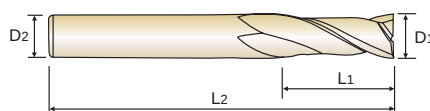
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG LENGTH

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available various length of cut and overall length end mills.



SEME70 SERIES



P.106~107

Unit : mm

EDP No.	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	D1	D2	L1	L2
SEME7002526E	2.5	6	26	60
SEME70030163SE	3.0	3	16	100
★ SEME7003010E	3.0	6	10	70
★ SEME7003012E	3.0	6	12	70
SEME7003014E	3.0	6	14	70
★ SEME7003016E	3.0	6	16	70
★ SEME7003020E	3.0	6	20	70
★ SEME7003026E	3.0	6	26	70
SEME7003030E	3.0	6	30	70
SEME70040204SE	4.0	4	20	100
★ SEME7004012E	4.0	6	12	70
★ SEME7004016E	4.0	6	16	70
★ SEME7004020E	4.0	6	20	70
★ SEME7004026E	4.0	6	26	70
★ SEME7004030E	4.0	6	30	70
★ SEME7005020E	5.0	6	20	70
★ SEME7005025E	5.0	6	25	70
SEME7005025100E	5.0	6	25	100
★ SEME7005030E	5.0	6	30	80
SEME7005035E	5.0	6	35	90
★ SEME7005040E	5.0	6	40	100
★ SEME7006015E	6.0	6	15	60
★ SEME7006015080E	6.0	6	15	80
★ SEME7006020E	6.0	6	20	70
★ SEME7006020090E	6.0	6	20	90
★ SEME7006025E	6.0	6	25	75
★ SEME7006030E	6.0	6	30	80
★ SEME7006030100E	6.0	6	30	100

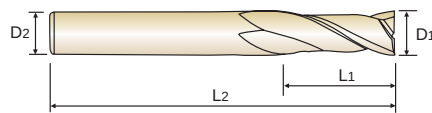
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG LENGTH

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available various length of cut and overall length end mills.



SEME70 SERIES



P.106~107

Unit : mm

EDP No.	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	D1	D2	L1	L2
★ SEME7006030150E	6.0	6	30	150
★ SEME7006035E	6.0	6	35	90
★ SEME7006040E	6.0	6	40	90
SEME7006040120E	6.0	6	40	120
★ SEME7006045E	6.0	6	45	150
★ SEME7008025E	8.0	8	25	80
★ SEME7008030E	8.0	8	30	80
SEME7008030100E	8.0	8	30	100
★ SEME7008035E	8.0	8	35	90
★ SEME7008040E	8.0	8	40	90
★ SEME7008040120E	8.0	8	40	120
SEME7008040150E	8.0	8	40	150
★ SEME7008045E	8.0	8	45	100
★ SEME7008050E	8.0	8	50	100
SEME7008050150E	8.0	8	50	150
★ SEME7010030E	10.0	10	30	80
★ SEME7010030100E	10.0	10	30	100
★ SEME7010035E	10.0	10	35	90
★ SEME7010040E	10.0	10	40	90
★ SEME7010040120E	10.0	10	40	120
★ SEME7010045E	10.0	10	45	100
★ SEME7010050E	10.0	10	50	100
SEME7010050150E	10.0	10	50	150
SEME7010050200E	10.0	10	50	200
SEME7010055E	10.0	10	55	150
★ SEME7010060E	10.0	10	60	110
SEME7010060200E	10.0	10	60	200
★ SEME7012035E	12.0	12	35	90

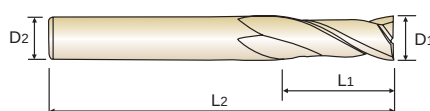
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG LENGTH

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available various length of cut and overall length end mills.



SEME70 SERIES



P.106~107

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2
★ SEME7012040E	12.0	12	40	100
★ SEME7012040120E	12.0	12	40	120
★ SEME7012045E	12.0	12	45	130
★ SEME7012050E	12.0	12	50	100
SEME7012050150E	12.0	12	50	150
★ SEME7012055E	12.0	12	55	110
★ SEME7012060E	12.0	12	60	110
★ SEME7012060150E	12.0	12	60	150
SEME7012060200E	12.0	12	60	200
SEME7012065E	12.0	12	65	150
SEME7012070E	12.0	12	70	120
SEME7012070200E	12.0	12	70	200
SEME7014050E	14.0	16	50	110
SEME7014060E	14.0	16	60	150
★ SEME7016040E	16.0	16	40	150
SEME7016050E	16.0	16	50	110
SEME7016050150E	16.0	16	50	150
SEME7016060E	16.0	16	60	120
SEME7016070E	16.0	16	70	130
SEME7016070150E	16.0	16	70	150
SEME7016070200E	16.0	16	70	200
SEME7016080E	16.0	16	80	150
SEME7016090E	16.0	16	90	150
SEME70160110E	16.0	16	110	200
SEME70160120E	16.0	16	120	250
SEME7018050E	18.0	20	50	120
SEME7018070E	18.0	20	70	130
SEME70180100E	18.0	20	100	200

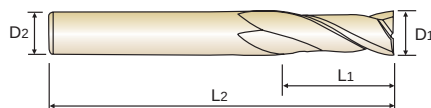
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG LENGTH

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available various length of cut and overall length end mills.



SEME70 SERIES



P.106~107

Unit : mm

EDP No.	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	D1	D2	L1	L2
SEME7020050E	20.0	20	50	110
SEME7020050150E	20.0	20	50	150
SEME7020060E	20.0	20	60	130
SEME7020070E	20.0	20	70	130
SEME7020080E	20.0	20	80	150
SEME7020090E	20.0	20	90	150
★ SEME7020090200E	20.0	20	90	200
★ SEME70200110E	20.0	20	110	200
SEME70200120E	20.0	20	120	250
SEME7022075E	22.0	20	75	150
SEME70220110E	22.0	20	110	200
SEME7025070E	25.0	25	70	150
SEME7025090E	25.0	25	90	150
SEME70250110E	25.0	25	110	200
SEME70250120E	25.0	25	120	250

▶ ★ Stock Item

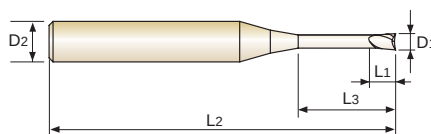
Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 2 FLUTE LONG NECK

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ For 1.0mm and under 1.0mm diameter sizes, designed double neck for increasing tool rigidity and minimizing vibration at working.
- ▶ Available various rib processing due to supplying various effective length and overall length products.



SEM845 SERIES



P.108~111

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM845001003E	0.1	4	0.15	0.3	40
SEM845001005E	0.1	4	0.15	0.5	40
SEM84500101E	0.1	4	0.15	1	40
SEM845002005E	0.2	4	0.3	0.5	40
★ SEM84500201E	0.2	4	0.3	1	40
SEM845002015E	0.2	4	0.3	1.5	40
SEM84500202E	0.2	4	0.3	2	40
SEM84500301E	0.3	4	0.5	1	40
SEM845003015E	0.3	4	0.5	1.5	40
SEM84500302E	0.3	4	0.5	2	40
SEM845003025E	0.3	4	0.5	2.5	40
SEM84500303E	0.3	4	0.5	3	40
SEM84500304E	0.3	4	0.5	4	40
SEM84500305E	0.3	4	0.5	5	40
★ SEM84500401E	0.4	4	0.6	1	40
SEM845004015E	0.4	4	0.6	1.5	40
★ SEM84500402E	0.4	4	0.6	2	40
SEM845004025E	0.4	4	0.6	2.5	40
★ SEM84500403E	0.4	4	0.6	3	40
★ SEM84500404E	0.4	4	0.6	4	40
★ SEM84500405E	0.4	4	0.6	5	40
SEM84500406E	0.4	4	0.6	6	40
SEM84500408E	0.4	4	0.6	8	40
SEM84500410E	0.4	4	0.6	10	40
SEM84500501E	0.5	4	0.7	1	45
SEM845005015E	0.5	4	0.7	1.5	45
★ SEM84500502E	0.5	4	0.7	2	45
SEM845005025E	0.5	4	0.7	2.5	45
★ SEM84500503E	0.5	4	0.7	3	45
★ SEM84500504E	0.5	4	0.7	4	45
★ SEM84500505E	0.5	4	0.7	5	45

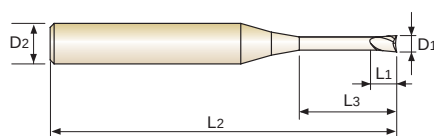
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 2 FLUTE LONG NECK

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ For 1.0mm and under 1.0mm diameter sizes, designed double neck for increasing tool rigidity and minimizing vibration at working.
- ▶ Available various rib processing due to supplying various effective length and overall length products.



SEM845 SERIES



P.108~111

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
★ SEM84500506E	0.5	4	0.7	6	45
SEM84500508E	0.5	4	0.7	8	45
SEM84500510E	0.5	4	0.7	10	45
SEM84500512E	0.5	4	0.7	12	45
SEM84500514E	0.5	4	0.7	14	45
SEM84500516E	0.5	4	0.7	16	45
★ SEM84500602E	0.6	4	0.9	2	45
★ SEM84500603E	0.6	4	0.9	3	45
★ SEM84500604E	0.6	4	0.9	4	45
★ SEM84500605E	0.6	4	0.9	5	45
★ SEM84500606E	0.6	4	0.9	6	45
★ SEM84500608E	0.6	4	0.9	8	45
★ SEM84500610E	0.6	4	0.9	10	45
SEM84500612E	0.6	4	0.9	12	45
SEM84500614E	0.6	4	0.9	14	45
SEM84500616E	0.6	4	0.9	16	45
SEM84500702E	0.7	4	1.2	2	45
SEM84500704E	0.7	4	1.2	4	45
SEM84500706E	0.7	4	1.2	6	45
SEM84500708E	0.7	4	1.2	8	45
SEM84500710E	0.7	4	1.2	10	45
SEM84500712E	0.7	4	1.2	12	45
★ SEM84500802E	0.8	4	1.2	2	45
★ SEM84500803E	0.8	4	1.2	3	45
★ SEM84500804E	0.8	4	1.2	4	45
★ SEM84500805E	0.8	4	1.2	5	45
★ SEM84500806E	0.8	4	1.2	6	45
★ SEM84500808E	0.8	4	1.2	8	45
★ SEM84500810E	0.8	4	1.2	10	45
SEM84500812E	0.8	4	1.2	12	45
SEM84500814E	0.8	4	1.2	14	45

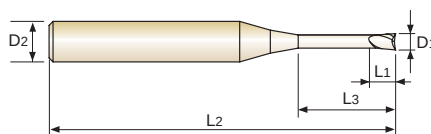
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 2 FLUTE LONG NECK

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ For 1.0mm and under 1.0mm diameter sizes, designed double neck for increasing tool rigidity and minimizing vibration at working.
- ▶ Available various rib processing due to supplying various effective length and overall length products.



SEM845 SERIES



P.108~111

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM84500816E	0.8	4	1.2	16	45
SEM84500820E	0.8	4	1.2	20	45
SEM84500906E	0.9	4	1.3	6	45
SEM84500908E	0.9	4	1.3	8	45
SEM84500910E	0.9	4	1.3	10	45
SEM84501002E	1.0	4	1.5	2	50
★ SEM84501003E	1.0	4	1.5	3	50
★ SEM84501004E	1.0	4	1.5	4	50
★ SEM84501005E	1.0	4	1.5	5	50
★ SEM84501006E	1.0	4	1.5	6	50
SEM84501007E	1.0	4	1.5	7	50
★ SEM84501008E	1.0	4	1.5	8	50
★ SEM84501010E	1.0	4	1.5	10	50
★ SEM84501012E	1.0	4	1.5	12	50
★ SEM84501014E	1.0	4	1.5	14	50
★ SEM84501016E	1.0	4	1.5	16	50
SEM84501018E	1.0	4	1.5	18	50
★ SEM84501020E	1.0	4	1.5	20	50
SEM84501022E	1.0	4	1.5	22	60
SEM84501026E	1.0	4	1.5	26	60
SEM84501030E	1.0	4	1.5	30	70
SEM84501040E	1.0	4	1.5	40	80
SEM84501050E	1.0	4	1.5	50	100
SEM84501204E	1.2	4	1.8	4	50
★ SEM84501206E	1.2	4	1.8	6	50
★ SEM84501208E	1.2	4	1.8	8	50
★ SEM84501210E	1.2	4	1.8	10	50
SEM84501212E	1.2	4	1.8	12	50
SEM84501214E	1.2	4	1.8	14	50
SEM84501216E	1.2	4	1.8	16	50
SEM84501220E	1.2	4	1.8	20	50

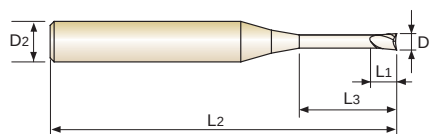
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 2 FLUTE LONG NECK

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ For 1.0mm and under 1.0mm diameter sizes, designed double neck for increasing tool rigidity and minimizing vibration at working.
- ▶ Available various rib processing due to supplying various effective length and overall length products.



SEM845 SERIES



P.108~111

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM84501226E	1.2	4	1.8	26	60
SEM84501230E	1.2	4	1.8	30	70
★ SEM84501406E	1.4	4	2.1	6	50
★ SEM84501408E	1.4	4	2.1	8	50
SEM84501410E	1.4	4	2.1	10	50
SEM84501414E	1.4	4	2.1	14	50
SEM84501416E	1.4	4	2.1	16	50
SEM84501420E	1.4	4	2.1	20	50
★ SEM84501504E	1.5	4	2.3	4	50
SEM84501505E	1.5	4	2.3	5	50
★ SEM84501506E	1.5	4	2.3	6	50
SEM84501507E	1.5	4	2.3	7	50
★ SEM84501508E	1.5	4	2.3	8	50
★ SEM84501510E	1.5	4	2.3	10	50
★ SEM84501512E	1.5	4	2.3	12	50
★ SEM84501514E	1.5	4	2.3	14	50
★ SEM84501516E	1.5	4	2.3	16	50
SEM84501518E	1.5	4	2.3	18	50
★ SEM84501520E	1.5	4	2.3	20	50
SEM84501522E	1.5	4	2.3	22	60
SEM84501526E	1.5	4	2.3	26	60
SEM84501530E	1.5	4	2.3	30	70
SEM84501608E	1.6	4	2.3	8	50
SEM84501610E	1.6	4	2.3	10	50
SEM84501612E	1.6	4	2.3	12	50
SEM84501616E	1.6	4	2.3	16	50
SEM84501620E	1.6	4	2.3	20	50
★ SEM84501808E	1.8	4	2.7	8	50
★ SEM84501810E	1.8	4	2.7	10	50
★ SEM84501812E	1.8	4	2.7	12	50
SEM84501816E	1.8	4	2.7	16	50

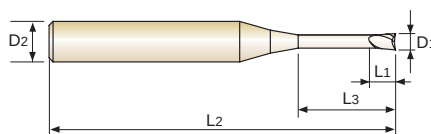
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 2 FLUTE LONG NECK

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ For 1.0mm and under 1.0mm diameter sizes, designed double neck for increasing tool rigidity and minimizing vibration at working.
- ▶ Available various rib processing due to supplying various effective length and overall length products.



SEM845 SERIES



P.108~111

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM84501820E	1.8	4	2.7	20	50
★ SEM84502006E	2.0	4	3	6	50
★ SEM84502008E	2.0	4	3	8	50
★ SEM84502010E	2.0	4	3	10	50
★ SEM84502012E	2.0	4	3	12	50
★ SEM84502014E	2.0	4	3	14	50
★ SEM84502016E	2.0	4	3	16	50
SEM84502018E	2.0	4	3	18	50
★ SEM84502020E	2.0	4	3	20	50
SEM84502022E	2.0	4	3	22	60
SEM84502026E	2.0	4	3	26	60
SEM84502030E	2.0	4	3	30	70
SEM84502035E	2.0	4	3	35	70
SEM84502040E	2.0	4	3	40	80
SEM84502045E	2.0	4	3	45	90
SEM84502050E	2.0	4	3	50	100
SEM84502060E	2.0	4	3	60	110
★ SEM84502508E	2.5	4	4	8	50
SEM84502510E	2.5	4	4	10	50
★ SEM84502512E	2.5	4	4	12	50
SEM84502514E	2.5	4	4	14	50
★ SEM84502516E	2.5	4	4	16	50
SEM84502518E	2.5	4	4	18	50
★ SEM84502520E	2.5	4	4	20	50
SEM84502522E	2.5	4	4	22	60
SEM84502526E	2.5	4	4	26	60
SEM84502530E	2.5	4	4	30	70
SEM84502535E	2.5	4	4	35	70
SEM84502540E	2.5	4	4	40	80
SEM84502545E	2.5	4	4	45	90
SEM84502550E	2.5	4	4	50	100

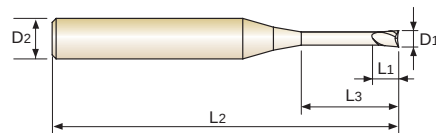
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 2 FLUTE LONG NECK

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ For 1.0mm and under 1.0mm diameter sizes, designed double neck for increasing tool rigidity and minimizing vibration at working.
- ▶ Available various rib processing due to supplying various effective length and overall length products.



SEM845 SERIES



P.108~111

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM84503006E	3.0	6	4.5	6	50
★ SEM84503008E	3.0	6	4.5	8	50
★ SEM84503010E	3.0	6	4.5	10	50
★ SEM84503012E	3.0	6	4.5	12	50
★ SEM84503014E	3.0	6	4.5	14	60
★ SEM84503016E	3.0	6	4.5	16	60
★ SEM84503018E	3.0	6	4.5	18	60
★ SEM84503020E	3.0	6	4.5	20	60
SEM84503022E	3.0	6	4.5	22	65
★ SEM84503026E	3.0	6	4.5	26	65
SEM84503030E	3.0	6	4.5	30	70
SEM84503035E	3.0	6	4.5	35	70
SEM84503040E	3.0	6	4.5	40	80
SEM84503045E	3.0	6	4.5	45	90
SEM84503050E	3.0	6	4.5	50	100
SEM84503060E	3.0	6	4.5	60	100
SEM84504008E	4.0	6	6	8	50
★ SEM84504010E	4.0	6	6	10	50
★ SEM84504012E	4.0	6	6	12	50
SEM84504014E	4.0	6	6	14	60
★ SEM84504016E	4.0	6	6	16	60
★ SEM84504018E	4.0	6	6	18	60
★ SEM84504020E	4.0	6	6	20	60
SEM84504022E	4.0	6	6	22	65
★ SEM84504026E	4.0	6	6	26	65
★ SEM84504030E	4.0	6	6	30	70
SEM84504035E	4.0	6	6	35	70
SEM84504040E	4.0	6	6	40	80
SEM84504045E	4.0	6	6	45	90
SEM84504050E	4.0	6	6	50	100
SEM84504060E	4.0	6	6	60	100

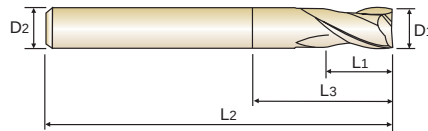
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 2 FLUTE LONG NECK

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ For 1.0mm and under 1.0mm diameter sizes, designed double neck for increasing tool rigidity and minimizing vibration at working.
- ▶ Available various rib processing due to supplying various effective length and overall length products.



SEM845 SERIES



P.108~111

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEM84505016E	5.0	6	8	16	60
★ SEM84505020E	5.0	6	8	20	60
SEM84505026E	5.0	6	8	26	65
★ SEM84505030E	5.0	6	8	30	70
★ SEM84505035E	5.0	6	8	35	75
★ SEM84505040E	5.0	6	8	40	80
★ SEM84505050E	5.0	6	8	50	90
SEM84505060E	5.0	6	8	60	100
★ SEM84506015E	6.0	6	9	15	60
★ SEM84506020E	6.0	6	9	20	60
★ SEM84506030E	6.0	6	9	30	70
SEM84506032E	6.0	6	9	32	90
★ SEM84508025E	8.0	8	12	25	70
SEM84508030E	8.0	8	12	30	80
SEM84508042E	8.0	8	12	42	100
★ SEM84510030E	10.0	10	15	30	75
SEM84510035E	10.0	10	15	35	80
★ SEM84510045E	10.0	10	15	45	100
★ SEM84512035E	12.0	12	20	35	80
SEM84512040E	12.0	12	20	40	90
★ SEM84512050E	12.0	12	20	50	110

▶ ★ Stock Item

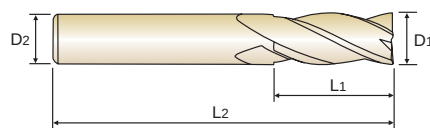
Size	Mill Dia. Tolerance (mm)	Shank Dia. Tolerance
up to $\varnothing 6$	0~-0.012	h6
over $\varnothing 6$	0~-0.015	

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 4 FLUTE

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.



SEME36 SERIES



P.112

Unit : mm

EDP No.	Mill Diameter	Shank Diameter	Length of Cut	Overall Length
	D1	D2	L1	L2
SEME36008E	0.8	4	1.6	40
SEME36009E	0.9	4	1.8	40
★ SEME36010E	1.0	6	2.5	50
SEME36012E	1.2	6	3	50
★ SEME36015E	1.5	6	4	50
★ SEME36020E	2.0	6	6	50
★ SEME36025E	2.5	6	7	50
★ SEME36030E	3.0	6	8	50
★ SEME36035E	3.5	6	10	50
★ SEME36040E	4.0	6	10	50
★ SEME36045E	4.5	6	14	50
★ SEME36050E	5.0	6	15	60
★ SEME36055E	5.5	6	15	60
★ SEME36060E	6.0	6	15	60
★ SEME36065E	6.5	8	18	60
★ SEME36070E	7.0	8	20	60
★ SEME36075E	7.5	8	20	60
★ SEME36080E	8.0	8	20	70
★ SEME36085E	8.5	10	22	70
★ SEME36090E	9.0	10	22	70
★ SEME36095E	9.5	10	24	70
★ SEME36100E	10.0	10	25	75
SEME36105E	10.5	12	26	75
★ SEME36110E	11.0	12	30	75

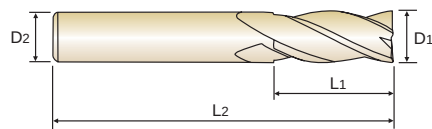
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 4 FLUTE

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.



SEME36 SERIES



P.112

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2
SEME36115E	11.5	12	30	80
★ SEME36120E	12.0	12	30	80
SEME36130E	13.0	12	35	100
SEME3614012SE	14.0	12	35	100
★ SEME3614014SE	14.0	14	35	100
★ SEME36140E	14.0	16	35	100
SEME36150E	15.0	16	38	100
★ SEME36160E	16.0	16	40	100
SEME36170E	17.0	16	42	100
★ SEME36180E	18.0	16	45	100
★ SEME3618018SE	18.0	18	45	100
SEME36190E	19.0	20	45	100
★ SEME36200E	20.0	20	45	100
SEME36210E	21.0	20	45	100
SEME36220E	22.0	20	45	100
SEME36230E	23.0	25	50	120
SEME36240E	24.0	25	50	120
SEME36250E	25.0	25	50	120

▶ ★ Stock Item

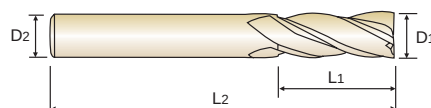
Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 4 FLUTE

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.
 - Designed equal index flute for long length end mills.
- ▶ Due to gash land geometry used at end tooth, heavy duty cutting can be achieved.
- ▶ Available various length products like short, regular and long length end mills etc.



SEME71 SERIES

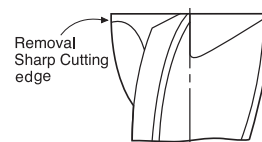


P.112

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEME7101001E	1.0	6	1	40	Short
SEME7101002E	1.0	6	2	40	Short
★ SEME71010E	1.0	6	2.5	50	Regular
SEME7101003E	1.0	6	3	50	Long
SEME7101004E	1.0	6	4	50	Long
SEME7101006E	1.0	6	6	50	Long
SEME7101202E	1.2	6	2	40	Short
★ SEME71012E	1.2	6	3	50	Regular
SEME7101204E	1.2	6	4	50	Long
SEME7101206E	1.2	6	6	50	Long
SEME71015015E	1.5	6	1.5	40	Short
SEME7101503E	1.5	6	3	40	Short
★ SEME71015E	1.5	6	4	50	Regular
SEME7101506E	1.5	6	6	50	Long
SEME7101508E	1.5	6	8	50	Long
SEME7101510E	1.5	6	10	50	Long
SEME7102002E	2.0	6	2	40	Short
SEME7102004E	2.0	6	4	40	Short
★ SEME71020E	2.0	6	6	50	Regular
SEME7102008E	2.0	6	8	50	Long
SEME7102010E	2.0	6	10	50	Long
SEME7102012E	2.0	6	12	50	Long
SEME71025025E	2.5	6	2.5	40	Short
SEME7102505E	2.5	6	5	40	Short
★ SEME71025E	2.5	6	7	50	Regular
SEME7102510E	2.5	6	10	50	Long

▶ ★ Stock Item

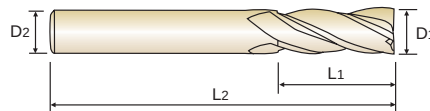


◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.
 - Designed equal index flute for long length end mills.
- ▶ Due to gash land geometry used at end tooth, heavy duty cutting can be achieved.
- ▶ Available various length products like short, regular and long length end mills etc.



SEME71 SERIES

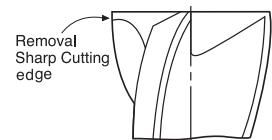


P.112

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEME7102512E	2.5	6	12	50	Long
SEME7103003E	3.0	6	3	40	Short
SEME7103006E	3.0	6	6	40	Short
★ SEME71030E	3.0	6	8	50	Regular
SEME7103010E	3.0	6	10	50	Long
SEME7103012E	3.0	6	12	50	Long
SEME7103014E	3.0	6	14	50	Long
SEME7104004E	4.0	6	4	40	Short
SEME7104008E	4.0	6	8	40	Short
★ SEME71040E	4.0	6	10	50	Regular
SEME7104012E	4.0	6	12	50	Long
SEME7104014E	4.0	6	14	50	Long
SEME7104016E	4.0	6	16	50	Long
SEME7105005E	5.0	6	5	50	Short
SEME7105010E	5.0	6	10	50	Short
★ SEME71050E	5.0	6	15	60	Regular
SEME7105020E	5.0	6	20	60	Long
SEME7105025E	5.0	6	25	60	Long
SEME7106006E	6.0	6	6	50	Short
SEME7106012E	6.0	6	12	50	Short
★ SEME71060E	6.0	6	15	60	Regular
SEME7106020E	6.0	6	20	60	Long
SEME7106025E	6.0	6	25	60	Long
SEME7108016E	8.0	8	16	60	Short
★ SEME71080E	8.0	8	20	70	Regular
SEME7108025E	8.0	8	25	70	Long

▶ ★ Stock Item

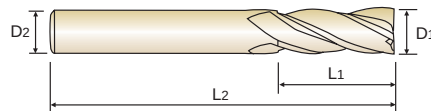


◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent for cutting prehardened steels, carbon steels, alloy steels of molds and dies, up to HRC55 and machine parts.
- ▶ Due to Multiple Helix for 3.0mm and over 3.0mm diameter end mills, vibration can be minimized at cutting, and wear of cutting tool can be decreased too.
 - Designed equal index flute for long length end mills.
- ▶ Due to gash land geometry used at end tooth, heavy duty cutting can be achieved.
- ▶ Available various length products like short, regular and long length end mills etc.



SEME71 SERIES



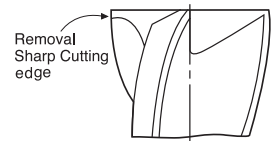
P.112

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
SEME7108030E	8.0	8	30	70	Long
SEME7110022E	10.0	10	22	65	Short
★ SEME71100E	10.0	10	25	75	Regular
SEME7110030E	10.0	10	30	75	Long
SEME7110035E	10.0	10	35	75	Long
SEME7112026E	12.0	12	26	70	Short
★ SEME71120E	12.0	12	30	80	Regular
SEME7112035E	12.0	12	35	80	Long
SEME7112040E	12.0	12	40	80	Long
SEME71140E	14.0	16	35	100	Regular
★ SEME7116032E	16.0	16	32	100	Short
SEME71160E	16.0	16	40	100	Regular
SEME71180E	18.0	20	45	100	Regular
★ SEME71200E	20.0	20	45	100	Regular

▶ ★ Stock Item

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

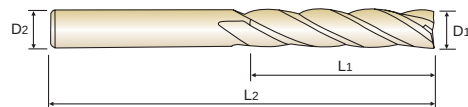


◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
○	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG LENGTH

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available various length of cut and overall length products.



SEME72 SERIES



P.113~114

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2
★ SEME7201003E	1.0	6	3	60
★ SEME7201004E	1.0	6	4	60
★ SEME7201005E	1.0	6	5	60
★ SEME7201006E	1.0	6	6	60
SEME7201007E	1.0	6	7	60
SEME7201008E	1.0	6	8	60
SEME7201010E	1.0	6	10	60
SEME7201012E	1.0	6	12	60
SEME7201204E	1.2	6	4	60
SEME7201206E	1.2	6	6	60
SEME7201208E	1.2	6	8	60
SEME7201210E	1.2	6	10	60
SEME7201212E	1.2	6	12	60
★ SEME7201506E	1.5	6	6	60
SEME7201508E	1.5	6	8	60
SEME7201510E	1.5	6	10	60
SEME7201512E	1.5	6	12	60
SEME7201514E	1.5	6	14	60
SEME7201516E	1.5	6	16	60
★ SEME7202008E	2.0	6	8	60
★ SEME7202010E	2.0	6	10	60
★ SEME7202012E	2.0	6	12	60
★ SEME7202014E	2.0	6	14	60
SEME7202016E	2.0	6	16	60
★ SEME7202510E	2.5	6	10	60
★ SEME7202512E	2.5	6	12	60
SEME7202516E	2.5	6	16	60
SEME7202520E	2.5	6	20	60

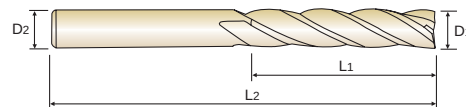
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG LENGTH

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available various length of cut and overall length products.



SEME72 SERIES



P.113~114

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2
SEME7202526E	2.5	6	26	60
SEME72030163SE	3.0	3	16	100
★ SEME7203010E	3.0	6	10	70
★ SEME7203012E	3.0	6	12	70
SEME7203014E	3.0	6	14	70
★ SEME7203016E	3.0	6	16	70
★ SEME7203020E	3.0	6	20	70
★ SEME7203026E	3.0	6	26	70
★ SEME7203030E	3.0	6	30	70
SEME72040204SE	4.0	4	20	100
★ SEME7204012E	4.0	6	12	70
★ SEME7204016E	4.0	6	16	70
★ SEME7204020E	4.0	6	20	70
★ SEME7204026E	4.0	6	26	70
★ SEME7204030E	4.0	6	30	70
★ SEME7205020E	5.0	6	20	70
★ SEME7205025E	5.0	6	25	70
SEME7205025100E	5.0	6	25	100
★ SEME7205030E	5.0	6	30	80
SEME7205035E	5.0	6	35	90
SEME7205040E	5.0	6	40	100
★ SEME7206015E	6.0	6	15	60
SEME7206015080E	6.0	6	15	80
★ SEME7206020E	6.0	6	20	70
★ SEME7206020090E	6.0	6	20	90
★ SEME7206025E	6.0	6	25	75
★ SEME7206030E	6.0	6	30	80
★ SEME7206030100E	6.0	6	30	100

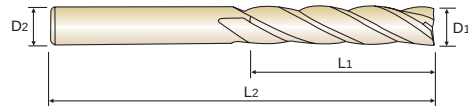
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Pearlhardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRc55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG LENGTH

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available various length of cut and overall length products.



SEME72 SERIES



P.113~114

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2
SEME7206030150E	6.0	6	30	150
★ SEME7206035E	6.0	6	35	90
★ SEME7206040E	6.0	6	40	90
★ SEME7206040120E	6.0	6	40	120
★ SEME7206045E	6.0	6	45	150
★ SEME7208025E	8.0	8	25	80
★ SEME7208030E	8.0	8	30	80
SEME7208030100E	8.0	8	30	100
★ SEME7208035E	8.0	8	35	90
★ SEME7208040E	8.0	8	40	90
SEME7208040120E	8.0	8	40	120
SEME7208040150E	8.0	8	40	150
★ SEME7208045E	8.0	8	45	100
★ SEME7208050E	8.0	8	50	100
★ SEME7208050150E	8.0	8	50	150
★ SEME7210030E	10.0	10	30	80
★ SEME7210030100E	10.0	10	30	100
★ SEME7210035E	10.0	10	35	90
★ SEME7210040E	10.0	10	40	90
SEME7210040120E	10.0	10	40	120
★ SEME7210045E	10.0	10	45	100
★ SEME7210050E	10.0	10	50	100
SEME7210050150E	10.0	10	50	150
SEME7210050200E	10.0	10	50	200
SEME7210055E	10.0	10	55	150
SEME7210060E	10.0	10	60	110
SEME7210060200E	10.0	10	60	200
★ SEME7212035E	12.0	12	35	90

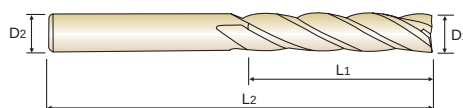
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG LENGTH

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available various length of cut and overall length products.



SEME72 SERIES



P.113~114

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2
★ SEME7212040E	12.0	12	40	100
SEME7212040120E	12.0	12	40	120
★ SEME7212045E	12.0	12	45	130
★ SEME7212050E	12.0	12	50	100
SEME7212050150E	12.0	12	50	150
★ SEME7212055E	12.0	12	55	110
★ SEME7212060E	12.0	12	60	110
★ SEME7212060150E	12.0	12	60	150
SEME7212060200E	12.0	12	60	200
SEME7212065E	12.0	12	65	150
SEME7212070E	12.0	12	70	120
SEME7212070200E	12.0	12	70	200
★ SEME7214050E	14.0	16	50	110
SEME7214060E	14.0	16	60	150
SEME7216040E	16.0	16	40	150
★ SEME7216050E	16.0	16	50	110
SEME7216050150E	16.0	16	50	150
★ SEME7216060E	16.0	16	60	120
★ SEME7216070E	16.0	16	70	130
★ SEME7216070150E	16.0	16	70	150
SEME7216070200E	16.0	16	70	200
SEME7216080E	16.0	16	80	150
SEME7216090E	16.0	16	90	150
SEME72160110E	16.0	16	110	200
SEME72160120E	16.0	16	120	250
SEME7218050E	18.0	20	50	120
SEME7218070E	18.0	20	70	130
SEME72180100E	18.0	20	100	200

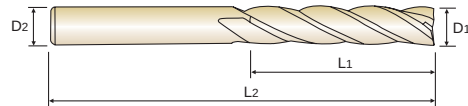
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG LENGTH

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available various length of cut and overall length products.



SEME72 SERIES



P.113~114

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2
SEME7220050E	20.0	20	50	110
SEME7220050150E	20.0	20	50	150
★ SEME7220060E	20.0	20	60	130
SEME7220070E	20.0	20	70	130
SEME7220080E	20.0	20	80	150
SEME7220090E	20.0	20	90	150
★ SEME7220090200E	20.0	20	90	200
SEME72200110E	20.0	20	110	200
SEME72200120E	20.0	20	120	250
SEME7222075E	22.0	20	75	150
SEME72220110E	22.0	20	110	200
SEME7225070E	25.0	25	70	150
★ SEME7225090E	25.0	25	90	150
SEME72250110E	25.0	25	110	200
SEME72250120	25.0	25	120	250

▶ ★ Stock Item

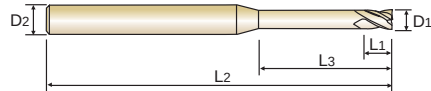
Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4 FLUTE LONG NECK

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available more various effective lengths and overall lengths than previous standard products.



SEME73 SERIES



P.115~117

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEME7301002E	1.0	4	1.5	2	50
SEME7301003E	1.0	4	1.5	3	50
★ SEME7301004E	1.0	4	1.5	4	50
★ SEME7301005E	1.0	4	1.5	5	50
★ SEME7301006E	1.0	4	1.5	6	50
SEME7301007E	1.0	4	1.5	7	50
★ SEME7301008E	1.0	4	1.5	8	50
SEME7301010E	1.0	4	1.5	10	50
SEME7301012E	1.0	4	1.5	12	50
SEME7301014E	1.0	4	1.5	14	50
SEME7301016E	1.0	4	1.5	16	50
SEME7301018E	1.0	4	1.5	18	50
SEME7301020E	1.0	4	1.5	20	50
SEME7301022E	1.0	4	1.5	22	60
SEME7301026E	1.0	4	1.5	26	60
SEME7301030E	1.0	4	1.5	30	70
SEME7301040E	1.0	4	1.5	40	80
SEME7301050E	1.0	4	1.5	50	100
SEME7301204E	1.2	4	1.8	4	50
SEME7301206E	1.2	4	1.8	6	50
SEME7301208E	1.2	4	1.8	8	50
SEME7301210E	1.2	4	1.8	10	50
SEME7301212E	1.2	4	1.8	12	50
SEME7301214E	1.2	4	1.8	14	50
SEME7301216E	1.2	4	1.8	16	50
SEME7301220E	1.2	4	1.8	20	50
SEME7301226E	1.2	4	1.8	26	60
SEME7301230E	1.2	4	1.8	30	70
SEME7301504E	1.5	4	2.3	4	50
SEME7301505E	1.5	4	2.3	5	50
★ SEME7301506E	1.5	4	2.3	6	50
SEME7301507E	1.5	4	2.3	7	50

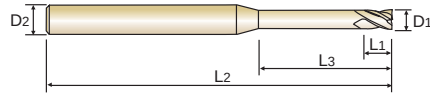
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 4 FLUTE LONG NECK

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available more various effective lengths and overall lengths than previous standard products.



SEME73 SERIES



P.115~117

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
★ SEME7301508E	1.5	4	2.3	8	50
★ SEME7301510E	1.5	4	2.3	10	50
★ SEME7301512E	1.5	4	2.3	12	50
SEME7301514E	1.5	4	2.3	14	50
★ SEME7301516E	1.5	4	2.3	16	50
SEME7301518E	1.5	4	2.3	18	50
SEME7301520E	1.5	4	2.3	20	50
SEME7301522E	1.5	4	2.3	22	60
SEME7301526E	1.5	4	2.3	26	60
SEME7301530E	1.5	4	2.3	30	70
SEME7302006E	2.0	4	3	6	50
★ SEME7302008E	2.0	4	3	8	50
★ SEME7302010E	2.0	4	3	10	50
★ SEME7302012E	2.0	4	3	12	50
SEME7302014E	2.0	4	3	14	50
★ SEME7302016E	2.0	4	3	16	50
SEME7302018E	2.0	4	3	18	50
SEME7302020E	2.0	4	3	20	50
SEME7302022E	2.0	4	3	22	60
SEME7302026E	2.0	4	3	26	60
SEME7302030E	2.0	4	3	30	70
SEME7302035E	2.0	4	3	35	70
SEME7302040E	2.0	4	3	40	80
SEME7302045E	2.0	4	3	45	90
SEME7302050E	2.0	4	3	50	100
SEME7302060E	2.0	4	3	60	110
SEME7302508E	2.5	4	4	8	50
SEME7302510E	2.5	4	4	10	50
SEME7302512E	2.5	4	4	12	50
SEME7302514E	2.5	4	4	14	50
SEME7302516E	2.5	4	4	16	50
SEME7302518E	2.5	4	4	18	50

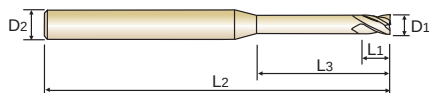
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 4 FLUTE LONG NECK

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available more various effective lengths and overall lengths than previous standard products.



SEME73 SERIES



P.115~117

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEME7302520E	2.5	4	4	20	50
SEME7302522E	2.5	4	4	22	60
SEME7302526E	2.5	4	4	26	60
SEME7302530E	2.5	4	4	30	70
SEME7302535E	2.5	4	4	35	70
SEME7302540E	2.5	4	4	40	80
SEME7302545E	2.5	4	4	45	90
SEME7302550E	2.5	4	4	50	100
SEME7303006E	3.0	6	4.5	6	50
SEME7303008E	3.0	6	4.5	8	50
★ SEME7303010E	3.0	6	4.5	10	50
★ SEME7303012E	3.0	6	4.5	12	50
SEME7303014E	3.0	6	4.5	14	60
★ SEME7303016E	3.0	6	4.5	16	60
SEME7303018E	3.0	6	4.5	18	60
★ SEME7303020E	3.0	6	4.5	20	60
SEME7303022E	3.0	6	4.5	22	65
SEME7303026E	3.0	6	4.5	26	65
★ SEME7303030E	3.0	6	4.5	30	70
SEME7303035E	3.0	6	4.5	35	70
SEME7303040E	3.0	6	4.5	40	80
SEME7303045E	3.0	6	4.5	45	90
SEME7303050E	3.0	6	4.5	50	100
SEME7303060E	3.0	6	4.5	60	100
SEME7304008E	4.0	6	6	8	50
SEME7304010E	4.0	6	6	10	50
★ SEME7304012E	4.0	6	6	12	50
SEME7304014E	4.0	6	6	14	60
★ SEME7304016E	4.0	6	6	16	60
SEME7304018E	4.0	6	6	18	60
★ SEME7304020E	4.0	6	6	20	60
SEME7304022E	4.0	6	6	22	65

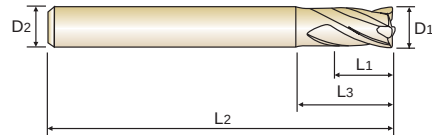
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 4 FLUTE LONG NECK

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Available more various effective lengths and overall lengths than previous standard products.



SEME73 SERIES



P.115~117

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Length Below Shank L3	Overall Length L2
SEME7304026E	4.0	6	6	26	65
★ SEME7304030E	4.0	6	6	30	70
SEME7304035E	4.0	6	6	35	70
★ SEME7304040E	4.0	6	6	40	80
SEME7304045E	4.0	6	6	45	90
SEME7304050E	4.0	6	6	50	100
SEME7304060E	4.0	6	6	60	100
SEME7305016E	5.0	6	8	16	60
★ SEME7305020E	5.0	6	8	20	60
SEME7305026E	5.0	6	8	26	65
SEME7305030E	5.0	6	8	30	70
SEME7305035E	5.0	6	8	35	75
★ SEME7305040E	5.0	6	8	40	80
SEME7305050E	5.0	6	8	50	90
SEME7305060E	5.0	6	8	60	100
★ SEME7306015E	6.0	6	9	15	60
SEME7306020E	6.0	6	9	20	60
★ SEME7306030E	6.0	6	9	30	70
SEME7306032E	6.0	6	9	32	90
★ SEME7308025E	8.0	8	12	25	70
SEME7308030E	8.0	8	12	30	80
★ SEME7308042E	8.0	8	12	42	100
★ SEME7310030E	10.0	10	15	30	75
SEME7310035E	10.0	10	15	35	80
★ SEME7310045E	10.0	10	15	45	100
★ SEME7312035E	12.0	12	20	35	80
SEME7312040E	12.0	12	20	40	90
★ SEME7312050E	12.0	12	20	50	110

▶ ★ Stock Item

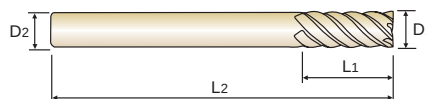
Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.03	h6

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○	○	○							

CARBIDE, 6 FLUTE 45° HELIX (REGULAR, LONG SHANK)

- ▶ Due to new coating and new tool geometry, outstanding cutting ability and wear resistance.
- ▶ Excellent performance when cutting prehardened steels, up to HRC55 which are used for molds & dies.
- ▶ Due to 45 helix angle, better surface roughness can be achieved at side cutting.
- ▶ Available various effective length and overall length products.



SEME75 SERIES



P.118~119

Unit : mm

EDP No.	Mill Diameter D1	Shank Diameter D2	Length of Cut L1	Overall Length L2	Remark
★ SEME75060E	6.0	6	15	60	Regular
SEME7506020E	6.0	6	20	70	Long
★ SEME7506030E	6.0	6	30	80	Long
SEME7506030110E	6.0	6	30	110	Long
★ SEME75080E	8.0	8	20	70	Regular
SEME7508030E	8.0	8	30	80	Long
SEME7508035E	8.0	8	35	90	Long
★ SEME7508040E	8.0	8	40	90	Long
SEME7508040130E	8.0	8	40	130	Long
★ SEME75100E	10.0	10	25	75	Regular
SEME7510030E	10.0	10	30	80	Long
★ SEME7510040E	10.0	10	40	90	Long
SEME7510050E	10.0	10	50	100	Long
SEME7510050150E	10.0	10	50	150	Long
★ SEME75120E	12.0	12	30	80	Regular
SEME7512040E	12.0	12	40	90	Long
★ SEME7512050E	12.0	12	50	100	Long
SEME7512060E	12.0	12	60	110	Long
SEME7512060150E	12.0	12	60	150	Long
★ SEME75160E	16.0	16	40	100	Regular
SEME7516050E	16.0	16	50	110	Long
★ SEME7516060E	16.0	16	60	120	Long
SEME7516090E	16.0	16	90	150	Long
SEME75160110E	16.0	16	110	200	Long
SEME75160110250E	16.0	16	110	250	Long
★ SEME75200E	20.0	20	45	100	Regular
★ SEME7520060E	20.0	20	60	120	Long
SEME7520070E	20.0	20	70	130	Long
SEME75200110E	20.0	20	110	200	Long
SEME75200110250E	20.0	20	110	250	Long
SEME75200110300E	20.0	20	110	300	Long

Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0 ~ -0.03	h6

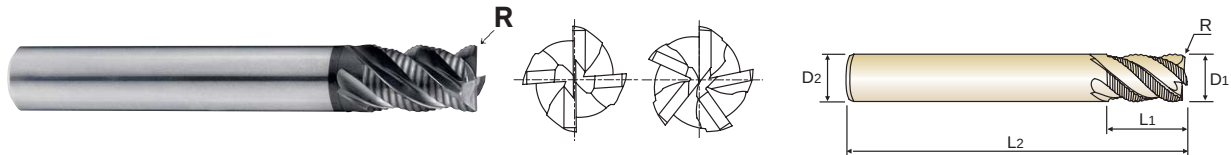
▶ ★ Stock Item

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	◎	○		○							

CARBIDE, 4&5 FLUTE MULTIPLE HELIX SHORT & LONG LENGTH CORNER RADIUS

- ▶ Unique flute design for excellent chip evacuation and vibration reduction.
- ▶ Optimal roughing tooth profile to reduce cutting forces.
- ▶ Special tool geometry for high feed rate and heavy cutting.
- ▶ Strong end tooth design for plunge and pocket milling.
- ▶ Custom engineered coating to allow long tool life and excellent chip evacuation.



G9D75, G9D67 SERIES
G9D76, G9D68 SERIES



P.120

SHORT LENGTH

Unit : mm

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length	No. of Flute
PLAIN	FLAT	R	D1	D2	L1	L2	
G9D75060	G9D67060	R0.5	6.0	6	9	57	4
G9D75080	G9D67080	R0.5	8.0	8	12	63	4
G9D75100	G9D67100	R0.5	10.0	10	15	72	4
G9D75120	G9D67120	R0.5	12.0	12	18	83	4
G9D75160	G9D67160	R1.0	16.0	16	24	92	5
G9D75200	G9D67200	R1.0	20.0	20	30	104	5

LONG LENGTH

Unit : mm

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Overall Length	No. of Flute
PLAIN	FLAT	R	D1	D2	L1	L2	
G9D76060	G9D68060	R0.5	6.0	6	12	57	4
G9D76080	G9D68080	R0.5	8.0	8	16	63	4
G9D76100	G9D68100	R0.5	10.0	10	20	72	4
G9D76120	G9D68120	R0.5	12.0	12	24	83	4
G9D76160	G9D68160	R1.0	16.0	16	32	92	5
G9D76200	G9D68200	R1.0	20.0	20	40	104	5

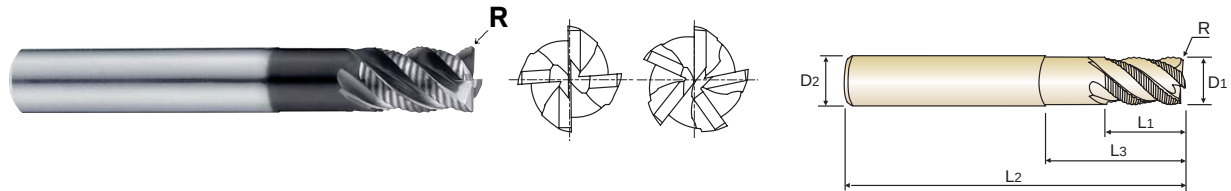
Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0~-0.05	h6

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	○		○	◎	○						

CARBIDE, 4&5 FLUTE MULTIPLE HELIX LONG REACH CORNER RADIUS

- ▶ Unique flute design for excellent chip evacuation and vibration reduction.
- ▶ Optimal roughing tooth profile to reduce cutting forces.
- ▶ Special tool geometry for high feed rate and heavy cutting.
- ▶ Strong end tooth design for plunge and pocket milling.
- ▶ Custom engineered coating to allow long tool life and excellent chip evacuation.



G9D77, G9D69 SERIES



P.120

Unit : mm

EDP No.		Corner Radius	Mill Diameter	Shank Diameter	Length of Cut	Length Below Shank	Overall Length	No. of Flute
PLAIN	FLAT	R	D1	D2	L1	L3	L2	
G9D77060	G9D69060	R0.5	6.0	6	9	18	57	4
G9D77080	G9D69080	R0.5	8.0	8	12	24	63	4
G9D77100	G9D69100	R0.5	10.0	10	15	30	72	4
G9D77120	G9D69120	R0.5	12.0	12	18	36	83	4
G9D77160	G9D69160	R1.0	16.0	16	24	48	100	5
G9D77200	G9D69200	R1.0	20.0	20	30	60	110	5

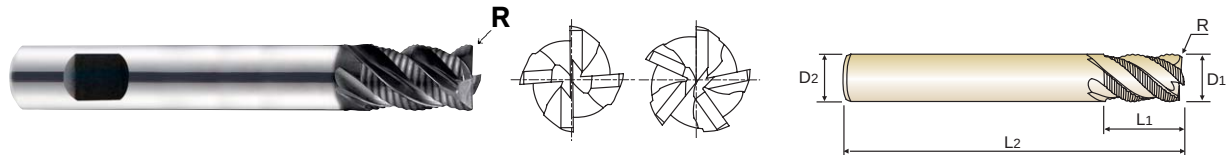
Mill Dia. Tolerance(mm)	Shank Dia. Tolerance
0 ~ -0.05	h6

◎ : Excellent ○ : Good

P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	◎	○		○	◎	○						

HSS-PM, 4&5 FLUTE MULTIPLE HELIX SHORT LENGTH CORNER RADIUS

- ▶ Unique flute design for excellent chip evacuation and vibration reduction.
- ▶ Optimal roughing tooth profile to reduce cutting forces.
- ▶ Special tool geometry for high feed rate and heavy cutting.
- ▶ Strong end tooth design for plunge and pocket milling.
- ▶ Custom engineered coating to allow long tool life and excellent chip evacuation.



GAE53 SERIES



P.121

Unit : mm

EDP No.	Corner Radius R	Mill Diameter D1(js12)	Shank Diameter D2(h6)	Length of Cut L1	Overall Length L2	No. of Flute
FLAT						
GAE53060	R0.5	6.0	6	13	57	4
GAE53070	R0.5	7.0	10	16	66	4
GAE53080	R0.5	8.0	10	19	69	4
GAE53090	R0.5	9.0	10	19	69	4
GAE53100	R0.5	10.0	10	22	72	4
GAE53120	R0.5	12.0	12	26	83	4
GAE53140	R1.0	14.0	16	26	83	5
GAE53160	R1.0	16.0	16	32	92	5
GAE53180	R1.0	18.0	20	32	92	5
GAE53200	R1.0	20.0	20	38	104	5

Tolerances according to DIN 7160 & 7161

Tolerance range in μm						
Nominal-Diameter in mm						
	from 1 to 3	over 3 to 6	over 6 to 10	over 10 to 18	over 18 to 30	over 30 to 50
js12	± 50	± 60	± 75	± 90	± 105	± 125
h6	$\begin{smallmatrix} 0 \\ -6 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -8 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -9 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -11 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -13 \end{smallmatrix}$	$\begin{smallmatrix} 0 \\ -16 \end{smallmatrix}$

◎ : Excellent ○ : Good

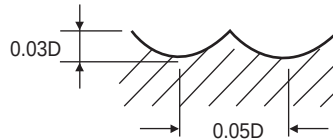
P				H	M	K	N					S	
Carbon Steels	Alloy Steels	Prehardened Steels	Hardened Steels	High Hardened Steels	Stainless Steels	Cast Iron	Copper	Graphite	Aluminum	Acrylic	CFRP	Titanium	High Temperature Alloy
~HB225	HB225~325	HRC30~40	HRC40~45 HRC45~55	HRC55~70									
◎	◎	○			◎	◎	○						



CARBIDE, 2 FLUTE BALL NOSE

SEMD98 SERIES

MATERIAL	P											
	NON-ALLOYED STEELS ALLOY STEELS CAST IRON				ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS			
	~ HRC 35				HRC 35 ~ HRC 45				HRC 45 ~ HRC 55			
	~ 1100N/mm ²				1110 ~ 1500N/mm ²				1500 ~ 2000N/mm ²			
STRENGTH												
DIAMETER	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
R0.05 × 0.1	40000	550	13	0.007	40000	500	13	0.006	33000	400	10	0.006
R0.1 × 0.2	30000	720	19	0.012	30000	630	19	0.011	27000	575	17	0.011
R0.15 × 0.3	30000	900	28	0.015	30000	810	28	0.014	27000	720	25	0.013
R0.2 × 0.4	30000	1140	38	0.019	30000	1020	38	0.017	27000	900	34	0.017
R0.25 × 0.5	30000	1440	47	0.024	30000	1260	47	0.021	27000	1140	42	0.021
R0.3 × 0.6	30000	1740	57	0.029	30000	1500	57	0.025	27000	1320	51	0.024
R0.35 × 0.7	30000	2040	66	0.034	30000	1740	66	0.029	27000	1560	59	0.029
R0.4 × 0.8	30000	2340	75	0.039	30000	1980	75	0.033	27000	1800	68	0.033
R0.45 × 0.9	30000	2610	85	0.044	30000	2250	85	0.038	27000	2040	76	0.038
R0.5 × 1.0	30000	2880	94	0.048	30000	2520	94	0.042	27000	2280	85	0.042
R0.6 × 1.2	30000	3060	113	0.051	28800	2580	109	0.045	25800	2310	97	0.045
R0.75 × 1.5	30000	3240	141	0.054	28800	2700	136	0.047	25800	2400	122	0.047
R1.0 × 2.0	29820	3420	187	0.057	28680	2880	180	0.050	24000	2400	151	0.050
R1.25 × 2.5	23800	3510	187	0.074	22900	3030	180	0.066	19200	2400	151	0.063
R1.5 × 3.0	19860	3600	187	0.091	19080	3180	180	0.083	16000	2400	151	0.075
R1.75 × 3.5	17000	3600	187	0.106	16400	3180	180	0.097	13700	2400	151	0.088
R2.0 × 4.0	14900	3600	187	0.121	14340	3180	180	0.111	12000	2400	151	0.100
R2.25 × 4.5	13030	3540	184	0.136	12510	3060	177	0.122	10500	2325	148	0.111
R2.5 × 5.0	11160	3480	175	0.156	10680	2940	168	0.138	9000	2250	141	0.125
R2.75 × 5.5	9750	3195	168	0.164	9360	2700	162	0.144	7800	2055	135	0.132
R3.0 × 6.0	8340	2910	157	0.174	8040	2460	152	0.153	6600	1860	124	0.141
R3.25 × 6.5	7780	2780	159	0.179	7500	2340	153	0.156	6200	1780	127	0.144
R3.5 × 7.0	7220	2650	159	0.184	6960	2220	153	0.159	5800	1700	128	0.147
R4.0 × 8.0	6660	2520	167	0.189	6420	2100	161	0.164	5400	1620	136	0.150
R4.25 × 8.5	6300	2420	168	0.192	6060	2020	162	0.167	5100	1560	136	0.153
R4.5 × 9.0	5940	2320	168	0.195	5700	1940	161	0.170	4800	1500	136	0.156
R5.0 × 10.0	5580	2220	175	0.199	5340	1860	168	0.174	4500	1440	141	0.160
R5.5 × 11.0	4875	1995	168	0.205	4670	1680	161	0.180	3930	1290	136	0.164
R6.0 × 12.0	4170	1770	157	0.212	4000	1500	151	0.188	3360	1140	127	0.170
R6.5 × 13.0	3960	1725	162	0.218	3800	1500	155	0.197	3200	1110	131	0.173
R7.0 × 14.0	3750	1680	165	0.224	3600	1500	158	0.208	3030	1080	133	0.178
R7.5 × 15.0	3550	1635	167	0.230	3400	1500	160	0.221	2870	1050	135	0.183
R8.0 × 16.0	3340	1590	168	0.238	3210	1320	161	0.206	2700	1020	136	0.189
R9.0 × 18.0	3005	1500	170	0.250	2895	1245	164	0.215	2430	960	137	0.198
R10.0 × 20.0	2670	1410	168	0.264	2580	1170	162	0.227	2160	900	136	0.208
R12.5 × 25.0	2130	1150	167	0.270	2060	950	162	0.231	1730	730	136	0.211



RPM = rev./min. Vc = m/min.
FEED = mm/min. Fz = mm/tooth



CARBIDE, 2 FLUTE LONG NECK BALL NOSE

SEM846 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)
0.1	0.2	50000	240	16	0.002	0.009	50000	215	16	0.002	0.007	50000	190	16	0.002	0.005
0.1	0.3	50000	240	16	0.002	0.009	50000	215	16	0.002	0.007	50000	190	16	0.002	0.005
0.1	0.5	50000	240	16	0.002	0.006	50000	215	16	0.002	0.005	50000	190	16	0.002	0.004
0.1	1	45000	195	14	0.002	0.002	45000	175	14	0.002	0.002	45000	155	14	0.002	0.001
0.2	0.5	50000	335	31	0.003	0.018	50000	310	31	0.003	0.014	43200	260	27	0.003	0.010
0.2	1	50000	335	31	0.003	0.013	50000	310	31	0.003	0.010	43200	260	27	0.003	0.007
0.2	1.5	45000	270	28	0.003	0.007	45000	250	28	0.003	0.006	38880	210	24	0.003	0.004
0.2	2	45000	270	28	0.003	0.005	45000	250	28	0.003	0.004	38880	210	24	0.003	0.003
0.2	3	45000	270	28	0.003	0.003	45000	250	28	0.003	0.003	38880	210	24	0.003	0.002
0.3	1	50000	475	47	0.005	0.019	50000	430	47	0.004	0.015	42800	365	40	0.004	0.011
0.3	1.5	50000	475	47	0.005	0.019	50000	430	47	0.004	0.015	42800	365	40	0.004	0.011
0.3	2	45000	385	42	0.004	0.011	45000	350	42	0.004	0.008	38520	295	36	0.004	0.006
0.3	2.5	45000	385	42	0.004	0.007	45000	350	42	0.004	0.005	38520	295	36	0.004	0.004
0.3	3	45000	385	42	0.004	0.007	45000	350	42	0.004	0.005	38520	295	36	0.004	0.004
0.3	4	40000	305	38	0.004	0.004	40000	275	38	0.003	0.003	34240	235	32	0.003	0.002
0.3	5	30000	200	28	0.003	0.003	30000	180	28	0.003	0.002	25680	155	24	0.003	0.002
0.4	1	41000	490	52	0.006	0.036	38800	425	49	0.005	0.028	34200	340	43	0.005	0.020
0.4	1.5	41000	490	52	0.006	0.025	38800	425	49	0.005	0.020	34200	340	43	0.005	0.014
0.4	2	41000	490	52	0.006	0.025	38800	425	49	0.005	0.020	34200	340	43	0.005	0.014
0.4	2.5	36900	395	46	0.005	0.014	34920	345	44	0.005	0.011	30780	275	39	0.004	0.008
0.4	3	36900	395	46	0.005	0.014	34920	345	44	0.005	0.011	30780	275	39	0.004	0.008
0.4	4	36900	395	46	0.005	0.009	34920	345	44	0.005	0.007	30780	275	39	0.004	0.005
0.4	5	32800	315	41	0.005	0.009	31040	270	39	0.004	0.007	27360	220	34	0.004	0.005
0.4	6	32800	315	41	0.005	0.005	31040	270	39	0.004	0.004	27360	220	34	0.004	0.003
0.4	8	24600	205	31	0.004	0.004	23280	180	29	0.004	0.003	20520	145	26	0.004	0.002
0.4	10	12300	90	15	0.004	0.004	11640	75	15	0.003	0.003	10260	60	13	0.003	0.002
0.5	1	34200	685	54	0.010	0.045	32300	580	51	0.009	0.035	28500	515	45	0.009	0.025
0.5	1.5	34200	685	54	0.010	0.045	32300	580	51	0.009	0.035	28500	515	45	0.009	0.025
0.5	2	34200	685	54	0.010	0.032	32300	580	51	0.009	0.025	28500	515	45	0.009	0.018
0.5	2.5	34200	685	54	0.010	0.032	32300	580	51	0.009	0.025	28500	515	45	0.009	0.018
0.5	3	30780	555	48	0.009	0.018	29070	470	46	0.008	0.014	25650	415	40	0.008	0.010
0.5	4	30780	555	48	0.009	0.018	29070	470	46	0.008	0.014	25650	415	40	0.008	0.010
0.5	5	30780	555	48	0.009	0.011	29070	470	46	0.008	0.009	25650	415	40	0.008	0.006
0.5	6	27360	440	43	0.008	0.011	25840	370	41	0.007	0.009	22800	330	36	0.007	0.006
0.5	8	20520	290	32	0.007	0.007	19380	245	30	0.006	0.005	17100	215	27	0.006	0.004
0.5	10	20520	290	32	0.007	0.005	19380	245	30	0.006	0.004	17100	215	27	0.006	0.003
0.5	12	10260	125	16	0.006	0.005	9690	105	15	0.005	0.004	8550	95	13	0.006	0.003
0.5	14	10260	125	16	0.006	0.005	9690	105	15	0.005	0.004	8550	95	13	0.006	0.003
0.5	16	3420	35	5	0.005	0.005	3230	30	5	0.005	0.004	2850	25	4	0.004	0.003
0.6	1	34200	1025	64	0.015	0.038	32300	840	61	0.013	0.029	28500	685	54	0.012	0.021
0.6	2	34200	1025	64	0.015	0.038	32300	840	61	0.013	0.029	28500	685	54	0.012	0.021
0.6	3	34200	1025	64	0.015	0.038	32300	840	61	0.013	0.029	28500	685	54	0.012	0.021
0.6	4	30780	830	58	0.013	0.022	29070	680	55	0.012	0.017	25650	555	48	0.011	0.012
0.6	5	30780	830	58	0.013	0.014	29070	680	55	0.012	0.011	25650	555	48	0.011	0.008
0.6	6	30780	830	58	0.013	0.014	29070	680	55	0.012	0.011	25650	555	48	0.011	0.008
0.6	8	27360	655	52	0.012	0.008	25840	540	49	0.010	0.006	22800	440	43	0.010	0.005
0.6	10	20520	430	39	0.010	0.005	19380	355	37	0.009	0.004	17100	290	32	0.008	0.003
0.6	12	20520	430	39	0.010	0.005	19380	355	37	0.009	0.004	17100	290	32	0.008	0.003
0.6	14	10260	185	19	0.009	0.005	9690	150	18	0.008	0.004	8550	125	16	0.007	0.003
0.6	16	10260	185	19	0.009	0.005	9690	150	18	0.008	0.004	8550	125	16	0.007	0.003
0.7	2	34200	1130	75	0.017	0.063	32300	930	71	0.014	0.049	28500	765	63	0.013	0.035
0.7	4	30780	915	68	0.015	0.025	29070	755	64	0.013	0.020	25650	620	56	0.012	0.014
0.7	6	30780	915	68	0.015	0.016	29070	755	64	0.013	0.012	25650	620	56	0.012	0.009

DIA. = Diameter LBS = Length Below Shank RPM = rev./min. FEED = mm/min. Vc = m/min. Fz = mm/tooth



CARBIDE, 2 FLUTE LONG NECK BALL NOSE

SEM846 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)
0.7	8	27360	725	60	0.013	0.016	25840	595	57	0.012	0.012	22800	490	50	0.011	0.009
0.7	10	27360	725	60	0.013	0.009	25840	595	57	0.012	0.007	22800	490	50	0.011	0.005
0.7	12	20520	475	45	0.012	0.006	19380	390	43	0.010	0.005	17100	320	38	0.009	0.004
0.8	2	34200	1230	86	0.018	0.072	32300	1035	81	0.016	0.056	28500	855	72	0.015	0.040
0.8	3	34200	1230	86	0.018	0.050	32300	1035	81	0.016	0.039	28500	855	72	0.015	0.028
0.8	4	34200	1230	86	0.018	0.050	32300	1035	81	0.016	0.039	28500	855	72	0.015	0.028
0.8	5	30780	995	77	0.016	0.029	29070	840	73	0.014	0.022	25650	695	64	0.014	0.016
0.8	6	30780	995	77	0.016	0.029	29070	840	73	0.014	0.022	25650	695	64	0.014	0.016
0.8	8	30780	995	77	0.016	0.018	29070	840	73	0.014	0.014	25650	695	64	0.014	0.010
0.8	10	27360	785	69	0.014	0.018	25840	660	65	0.013	0.014	22800	545	57	0.012	0.010
0.8	12	27360	785	69	0.014	0.011	25840	660	65	0.013	0.008	22800	545	57	0.012	0.006
0.8	14	20520	515	52	0.013	0.007	19380	435	49	0.011	0.006	17100	360	43	0.011	0.004
0.8	16	20520	515	52	0.013	0.007	19380	435	49	0.011	0.006	17100	360	43	0.011	0.004
0.8	20	10260	220	26	0.011	0.007	9690	185	24	0.010	0.006	8550	155	21	0.009	0.004
0.9	4	29250	1120	83	0.019	0.032	27630	935	78	0.017	0.025	24390	775	69	0.016	0.018
0.9	6	29250	1120	83	0.019	0.032	27630	935	78	0.017	0.025	24390	775	69	0.016	0.018
0.9	8	29250	1120	83	0.019	0.020	27630	935	78	0.017	0.016	24390	775	69	0.016	0.011
0.9	10	26000	885	74	0.017	0.020	24560	740	69	0.015	0.016	21680	610	61	0.014	0.011
1.0	2	30800	1540	97	0.025	0.090	29100	1310	91	0.023	0.070	25700	1075	81	0.021	0.050
1.0	3	30800	1540	97	0.025	0.090	29100	1310	91	0.023	0.070	25700	1075	81	0.021	0.050
1.0	4	30800	1540	97	0.025	0.063	29100	1310	91	0.023	0.049	25700	1075	81	0.021	0.035
1.0	5	30800	1540	97	0.025	0.063	29100	1310	91	0.023	0.049	25700	1075	81	0.021	0.035
1.0	6	27720	1245	87	0.022	0.036	26190	1060	82	0.020	0.028	23130	870	73	0.019	0.020
1.0	7	27720	1245	87	0.022	0.036	26190	1060	82	0.020	0.028	23130	870	73	0.019	0.020
1.0	8	27720	1245	87	0.022	0.036	26190	1060	82	0.020	0.028	23130	870	73	0.019	0.020
1.0	10	27720	1245	87	0.022	0.023	26190	1060	82	0.020	0.018	23130	870	73	0.019	0.013
1.0	12	24640	985	77	0.020	0.023	23280	840	73	0.018	0.018	20560	690	65	0.017	0.013
1.0	14	24640	985	77	0.020	0.014	23280	840	73	0.018	0.011	20560	690	65	0.017	0.008
1.0	16	18480	645	58	0.017	0.014	17460	550	55	0.016	0.011	15420	450	48	0.015	0.008
1.0	18	18480	645	58	0.017	0.009	17460	550	55	0.016	0.007	15420	450	48	0.015	0.005
1.0	20	18480	645	58	0.017	0.009	17460	550	55	0.016	0.007	15420	450	48	0.015	0.005
1.0	22	9240	275	29	0.015	0.009	8730	235	27	0.013	0.007	7710	195	24	0.013	0.005
1.0	26	9240	275	29	0.015	0.009	8730	235	27	0.013	0.007	7710	195	24	0.013	0.005
1.0	30	9240	275	29	0.015	0.009	8730	235	27	0.013	0.007	7710	195	24	0.013	0.005
1.0	40	3080	75	10	0.012	0.009	2910	65	9	0.011	0.007	2570	55	8	0.011	0.005
1.0	50	3080	75	10	0.012	0.006	2910	65	9	0.011	0.005	2570	55	8	0.011	0.003
1.2	4	26300	1375	99	0.026	0.076	24800	1150	93	0.023	0.059	21900	950	83	0.022	0.042
1.2	6	26300	1375	99	0.026	0.076	24800	1150	93	0.023	0.059	21900	950	83	0.022	0.042
1.2	8	23670	1115	89	0.024	0.043	22320	930	84	0.021	0.034	19710	770	74	0.020	0.024
1.2	10	23670	1115	89	0.024	0.027	22320	930	84	0.021	0.021	19710	770	74	0.020	0.015
1.2	12	23670	1115	89	0.024	0.027	22320	930	84	0.021	0.021	19710	770	74	0.020	0.015
1.2	16	21040	880	79	0.021	0.016	19840	735	75	0.019	0.013	17520	610	66	0.017	0.009
1.2	20	15780	580	59	0.018	0.011	14880	485	56	0.016	0.008	13140	400	50	0.015	0.006
1.2	26	7890	245	30	0.016	0.011	7440	205	28	0.014	0.008	6570	170	25	0.013	0.006
1.4	6	21500	1295	95	0.030	0.088	20300	1100	89	0.027	0.069	18000	935	79	0.026	0.049
1.4	8	19350	1050	85	0.027	0.050	18270	890	80	0.024	0.039	16200	755	71	0.023	0.028
1.4	10	19350	1050	85	0.027	0.050	18270	890	80	0.024	0.039	16200	755	71	0.023	0.028
1.4	16	17200	830	76	0.024	0.032	16240	705	71	0.022	0.025	14400	600	63	0.021	0.018
1.5	4	23900	1580	113	0.033	0.135	22600	1355	106	0.030	0.105	20000	1075	94	0.027	0.075
1.5	5	23900	1580	113	0.033	0.095	22600	1355	106	0.030	0.074	20000	1075	94	0.027	0.053
1.5	6	23900	1580	113	0.033	0.095	22600	1355	106	0.030	0.074	20000	1075	94	0.027	0.053
1.5	7	23900	1580	113	0.033	0.095	22600	1355	106	0.030	0.074	20000	1075	94	0.027	0.053
1.5	8	21510	1280	101	0.030	0.054	20340	1100	96	0.027	0.042	18000	870	85	0.024	0.030

DIA. = Diameter LBS = Length Below Shank RPM = rev./min. FEED = mm/min. Vc = m/min. Fz = mm/tooth



CARBIDE, 2 FLUTE LONG NECK BALL NOSE

SEM846 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)
1.5	10	21510	1280	101	0.030	0.054	20340	1100	96	0.027	0.042	18000	870	85	0.024	0.030
1.5	12	21510	1280	101	0.030	0.054	20340	1100	96	0.027	0.042	18000	870	85	0.024	0.030
1.5	14	21510	1280	101	0.030	0.034	20340	1100	96	0.027	0.026	18000	870	85	0.024	0.019
1.5	16	19120	1010	90	0.026	0.034	18080	865	85	0.024	0.026	16000	690	75	0.022	0.019
1.5	18	19120	1010	90	0.026	0.034	18080	865	85	0.024	0.026	16000	690	75	0.022	0.019
1.5	20	19120	1010	90	0.026	0.02	18080	865	85	0.024	0.016	16000	690	75	0.022	0.011
1.5	22	19120	1010	90	0.026	0.02	18080	865	85	0.024	0.016	16000	690	75	0.022	0.011
1.5	26	14340	665	68	0.023	0.014	13560	570	64	0.021	0.011	12000	450	57	0.019	0.008
1.5	30	14340	665	68	0.023	0.014	13560	570	64	0.021	0.011	12000	450	57	0.019	0.008
1.5	35	7170	285	34	0.020	0.010	6780	245	32	0.018	0.008	6000	195	28	0.016	0.005
1.5	40	7170	285	34	0.020	0.010	6780	245	32	0.018	0.008	6000	195	28	0.016	0.005
1.6	4	22200	1555	112	0.035	0.101	21000	1300	106	0.031	0.078	18500	1110	93	0.030	0.056
1.6	6	22200	1555	112	0.035	0.101	21000	1300	106	0.031	0.078	18500	1110	93	0.030	0.056
1.6	8	22200	1555	112	0.035	0.101	21000	1300	106	0.031	0.078	18500	1110	93	0.030	0.056
1.6	10	19980	1260	100	0.032	0.058	18900	1055	95	0.028	0.045	16650	900	84	0.027	0.032
1.6	12	19980	1260	100	0.032	0.058	18900	1055	95	0.028	0.045	16650	900	84	0.027	0.032
1.6	16	19980	1260	100	0.032	0.036	18900	1055	95	0.028	0.028	16650	900	84	0.027	0.020
1.6	20	17760	995	89	0.028	0.036	16800	830	84	0.025	0.028	14800	710	74	0.024	0.020
1.8	4	22200	1780	126	0.040	0.113	21000	1470	119	0.035	0.088	18500	1225	105	0.033	0.063
1.8	6	22200	1780	126	0.040	0.113	21000	1470	119	0.035	0.088	18500	1225	105	0.033	0.063
1.8	8	22200	1780	126	0.040	0.113	21000	1470	119	0.035	0.088	18500	1225	105	0.033	0.063
1.8	10	19980	1440	113	0.036	0.065	18900	1190	107	0.031	0.050	16650	990	94	0.030	0.036
1.8	12	19980	1440	113	0.036	0.065	18900	1190	107	0.031	0.050	16650	990	94	0.030	0.036
1.8	16	19980	1440	113	0.036	0.041	18900	1190	107	0.031	0.032	16650	990	94	0.030	0.023
1.8	20	17760	1140	100	0.032	0.041	16800	940	95	0.028	0.032	14800	785	84	0.027	0.023
2.0	6	18000	1795	113	0.050	0.180	17000	1525	107	0.045	0.140	15000	1285	94	0.043	0.100
2.0	8	18000	1795	113	0.050	0.126	17000	1525	107	0.045	0.098	15000	1285	94	0.043	0.070
2.0	10	18000	1795	113	0.050	0.126	17000	1525	107	0.045	0.098	15000	1285	94	0.043	0.070
2.0	12	16200	1455	102	0.045	0.072	15300	1235	96	0.040	0.056	13500	1040	85	0.039	0.040
2.0	14	16200	1455	102	0.045	0.072	15300	1235	96	0.040	0.056	13500	1040	85	0.039	0.040
2.0	16	16200	1455	102	0.045	0.072	15300	1235	96	0.040	0.056	13500	1040	85	0.039	0.040
2.0	18	16200	1455	102	0.045	0.045	15300	1235	96	0.040	0.035	13500	1040	85	0.039	0.025
2.0	20	16200	1455	102	0.045	0.045	15300	1235	96	0.040	0.035	13500	1040	85	0.039	0.025
2.0	22	14400	1150	90	0.040	0.045	13600	975	85	0.036	0.035	12000	820	75	0.034	0.025
2.0	26	14400	1150	90	0.040	0.045	13600	975	85	0.036	0.035	12000	820	75	0.034	0.025
2.0	30	14400	1150	90	0.040	0.027	13600	975	85	0.036	0.021	12000	820	75	0.034	0.015
2.0	35	10800	755	68	0.035	0.018	10200	640	64	0.031	0.014	9000	540	57	0.030	0.010
2.0	40	10800	755	68	0.035	0.018	10200	640	64	0.031	0.014	9000	540	57	0.030	0.010
2.0	45	5400	325	34	0.030	0.018	5100	275	32	0.027	0.014	4500	230	28	0.026	0.010
2.0	50	5400	325	34	0.030	0.018	5100	275	32	0.027	0.014	4500	230	28	0.026	0.010
2.0	60	5400	325	34	0.030	0.018	5100	275	32	0.027	0.014	4500	230	28	0.026	0.010
2.5	8	15800	1925	124	0.061	0.158	14900	1605	117	0.054	0.123	13200	1305	104	0.049	0.088
2.5	10	15800	1925	124	0.061	0.158	14900	1605	117	0.054	0.123	13200	1305	104	0.049	0.088
2.5	12	15800	1925	124	0.061	0.158	14900	1605	117	0.054	0.123	13200	1305	104	0.049	0.088
2.5	16	14220	1560	112	0.055	0.090	13410	1300	105	0.048	0.070	11880	1055	93	0.044	0.050
2.5	20	14220	1560	112	0.055	0.090	13410	1300	105	0.048	0.070	11880	1055	93	0.044	0.050
2.5	22	14220	1560	112	0.055	0.056	13410	1300	105	0.048	0.044	11880	1055	93	0.044	0.031
2.5	26	12640	1230	99	0.049	0.056	11920	1025	94	0.043	0.044	10560	835	83	0.040	0.031
2.5	30	12640	1230	99	0.049	0.056	11920	1025	94	0.043	0.044	10560	835	83	0.040	0.031
2.5	35	12640	1230	99	0.049	0.034	11920	1025	94	0.043	0.026	10560	835	83	0.040	0.019
2.5	40	9480	810	74	0.043	0.034	8940	675	70	0.038	0.026	7920	550	62	0.035	0.019
2.5	45	9480	810	74	0.043	0.023	8940	675	70	0.038	0.018	7920	550	62	0.035	0.013
2.5	50	9480	810	74	0.043	0.023	8940	675	70	0.038	0.018	7920	550	62	0.035	0.013

DIA. = Diameter LBS = Length Below Shank RPM = rev./min. FEED = mm/min. Vc = m/min. Fz = mm/tooth

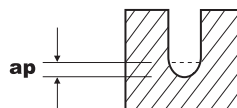


CARBIDE, 2 FLUTE LONG NECK BALL NOSE

SEM846 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)
3.0	6	13700	2050	129	0.075	0.270	12900	1730	122	0.067	0.210	11400	1435	107	0.063	0.150
3.0	8	13700	2050	129	0.075	0.270	12900	1730	122	0.067	0.210	11400	1435	107	0.063	0.150
3.0	10	13700	2050	129	0.075	0.189	12900	1730	122	0.067	0.147	11400	1435	107	0.063	0.105
3.0	12	13700	2050	129	0.075	0.189	12900	1730	122	0.067	0.147	11400	1435	107	0.063	0.105
3.0	14	13700	2050	129	0.075	0.189	12900	1730	122	0.067	0.147	11400	1435	107	0.063	0.105
3.0	16	12330	1660	116	0.067	0.108	11610	1400	109	0.060	0.084	10260	1160	97	0.057	0.060
3.0	18	12330	1660	116	0.067	0.108	11610	1400	109	0.060	0.084	10260	1160	97	0.057	0.060
3.0	20	12330	1660	116	0.067	0.108	11610	1400	109	0.060	0.084	10260	1160	97	0.057	0.060
3.0	22	12330	1660	116	0.067	0.108	11610	1400	109	0.060	0.084	10260	1160	97	0.057	0.060
3.0	26	12330	1660	116	0.067	0.068	11610	1400	109	0.060	0.053	10260	1160	97	0.057	0.038
3.0	30	12330	1660	116	0.067	0.068	11610	1400	109	0.060	0.053	10260	1160	97	0.057	0.038
3.0	35	10960	1310	103	0.060	0.068	10320	1105	97	0.054	0.053	9120	920	86	0.050	0.038
3.0	40	10960	1310	103	0.060	0.041	10320	1105	97	0.054	0.032	9120	920	86	0.050	0.023
3.0	45	10960	1310	103	0.060	0.041	10320	1105	97	0.054	0.032	9120	920	86	0.050	0.023
3.0	50	8220	860	77	0.052	0.027	7740	725	73	0.047	0.021	6840	605	64	0.044	0.015
3.0	60	8220	860	77	0.052	0.027	7740	725	73	0.047	0.021	6840	605	64	0.044	0.015
4.0	8	9800	1965	123	0.100	0.360	9300	1670	117	0.090	0.280	8200	1395	103	0.085	0.200
4.0	10	9800	1965	123	0.100	0.360	9300	1670	117	0.090	0.280	8200	1395	103	0.085	0.200
4.0	12	9800	1965	123	0.100	0.360	9300	1670	117	0.090	0.280	8200	1395	103	0.085	0.200
4.0	14	9800	1965	123	0.100	0.252	9300	1670	117	0.090	0.196	8200	1395	103	0.085	0.140
4.0	16	9800	1965	123	0.100	0.252	9300	1670	117	0.090	0.196	8200	1395	103	0.085	0.140
4.0	18	9800	1965	123	0.100	0.252	9300	1670	117	0.090	0.196	8200	1395	103	0.085	0.140
4.0	20	9800	1965	123	0.100	0.252	9300	1670	117	0.090	0.196	8200	1395	103	0.085	0.140
4.0	22	8820	1590	111	0.090	0.144	8370	1355	105	0.081	0.112	7380	1130	93	0.077	0.080
4.0	26	8820	1590	111	0.090	0.144	8370	1355	105	0.081	0.112	7380	1130	93	0.077	0.080
4.0	30	8820	1590	111	0.090	0.144	8370	1355	105	0.081	0.112	7380	1130	93	0.077	0.080
4.0	35	8820	1590	111	0.090	0.090	8370	1355	105	0.081	0.070	7380	1130	93	0.077	0.050
4.0	40	8820	1590	111	0.090	0.090	8370	1355	105	0.081	0.070	7380	1130	93	0.077	0.050
4.0	45	7840	1260	99	0.080	0.090	7440	1070	93	0.072	0.070	6560	895	82	0.068	0.050
4.0	50	7840	1260	99	0.080	0.090	7440	1070	93	0.072	0.070	6560	895	82	0.068	0.050
4.0	60	7840	1260	99	0.080	0.054	7440	1070	93	0.072	0.042	6560	895	82	0.068	0.030
5.0	15	7700	1845	121	0.120	0.315	7300	1455	115	0.100	0.245	6400	1285	101	0.100	0.175
5.0	20	7700	1845	121	0.120	0.315	7300	1455	115	0.100	0.245	6400	1285	101	0.100	0.175
5.0	26	6930	1495	109	0.108	0.180	6570	1180	103	0.090	0.140	5760	1040	90	0.090	0.100
5.0	30	6930	1495	109	0.108	0.180	6570	1180	103	0.090	0.140	5760	1040	90	0.090	0.100
5.0	35	6930	1495	109	0.108	0.180	6570	1180	103	0.090	0.140	5760	1040	90	0.090	0.100
5.0	40	6930	1495	109	0.108	0.180	6570	1180	103	0.090	0.140	5760	1040	90	0.090	0.100
5.0	50	6930	1495	109	0.108	0.113	6570	1180	103	0.090	0.088	5760	1040	90	0.090	0.063
5.0	60	6160	1180	97	0.096	0.113	5840	930	92	0.080	0.088	5120	820	80	0.080	0.063
6.0	20	6500	1900	123	0.146	0.378	6200	1600	117	0.129	0.294	5500	1330	104	0.121	0.210
6.0	30	6500	1900	123	0.146	0.378	6200	1600	117	0.129	0.294	5500	1330	104	0.121	0.210
8.0	25	4850	1800	122	0.186	0.504	4600	1500	116	0.163	0.392	4000	1280	101	0.160	0.280
8.0	30	4850	1800	122	0.186	0.504	4600	1500	116	0.163	0.392	4000	1280	101	0.160	0.280
10.0	30	3850	1650	121	0.214	0.900	3680	1400	116	0.190	0.700	3200	1200	101	0.188	0.500
10.0	40	3850	1650	121	0.214	0.630	3680	1400	116	0.190	0.490	3200	1200	101	0.188	0.350
12.0	32	3200	1520	121	0.238	1.080	3050	1300	115	0.213	0.840	2650	1100	100	0.208	0.600
12.0	45	3200	1520	121	0.238	0.756	3050	1300	115	0.213	0.588	2650	1100	100	0.208	0.420

(Depth of Cut per one pass)



DIA. = Diameter
LBS = Length Below Shank

RPM = rev./min.
FEED = mm/min.

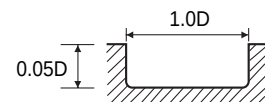
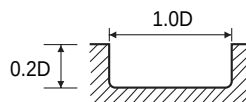
Vc = m/min.
Fz = mm/tooth



CARBIDE, 2 FLUTE CORNER RADIUS

SEMD99 SERIES

MATERIAL	P											
	NON-ALLOYED STEELS ALLOY STEELS CAST IRON				ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS			
	~ HRC 35				HRC 35 ~ HRC 45				HRC 45 ~ HRC 55			
	~ 1100N/mm ²				1110 ~ 1500N/mm ²				1500 ~ 2000N/mm ²			
DIAMETER	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
0.2	44000	145	28	0.002	28800	60	18	0.001	17600	40	11	0.001
0.3	41000	170	39	0.002	27000	70	25	0.001	16500	45	16	0.001
0.4	41000	170	52	0.002	27000	70	34	0.001	16500	45	21	0.001
0.5	36000	190	57	0.003	23400	80	37	0.002	14300	50	22	0.002
0.6	30000	210	57	0.004	19800	90	37	0.002	12100	55	23	0.002
0.7	30000	210	66	0.004	19800	90	44	0.002	12100	55	27	0.002
0.8	30000	210	75	0.004	19800	90	50	0.002	12100	55	30	0.002
0.9	30000	225	85	0.004	18900	90	53	0.002	11550	55	33	0.002
1.0	27600	240	87	0.004	18000	100	57	0.003	11000	60	35	0.003
1.2	24800	245	93	0.005	15750	105	59	0.003	9750	60	37	0.003
1.5	22000	250	104	0.006	13500	110	64	0.004	8500	60	40	0.004
2.0	18000	260	113	0.007	11560	120	73	0.005	7200	70	45	0.005
2.5	15000	270	118	0.009	9500	130	75	0.007	6100	70	48	0.006
3.0	13240	280	125	0.011	8560	140	81	0.008	5280	70	50	0.007
3.5	11980	310	132	0.013	7690	155	85	0.010	4790	75	53	0.008
4.0	10720	340	135	0.016	6820	170	86	0.012	4300	80	54	0.009
4.5	9940	380	141	0.019	6310	185	89	0.015	4300	90	61	0.010
5.0	9160	420	144	0.023	5800	200	91	0.017	3800	100	60	0.013
5.5	8530	460	147	0.027	5420	225	94	0.021	3540	110	61	0.016
6.0	7900	500	149	0.032	5040	250	95	0.025	3280	120	62	0.018
7.0	6950	520	153	0.037	4420	250	97	0.028	2900	120	64	0.021
8.0	6000	540	151	0.045	3800	250	96	0.033	2520	120	63	0.024
10.0	5040	540	158	0.054	3280	250	103	0.038	2020	120	63	0.030
11.0	4580	480	158	0.052	3030	240	105	0.040	1850	110	64	0.030
12.0	4120	420	155	0.051	2780	230	105	0.041	1680	100	63	0.030
14.0	3610	390	159	0.054	2440	200	107	0.041	1480	90	65	0.030
16.0	3100	360	156	0.058	2100	170	106	0.040	1280	80	64	0.031
20.0	2520	280	158	0.056	1640	120	103	0.037	1000	60	63	0.030



RPM = rev./min. Vc = m/min.
FEED = mm/min. Fz = mm/tooth



CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS

SEME61 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)
0.2	0.5	50000	170	31	0.002	0.040	34500	75	22	0.001	0.030	21150	45	13	0.001	0.024
0.2	1	50000	170	31	0.002	0.028	34500	75	22	0.001	0.021	21150	45	13	0.001	0.017
0.2	1.5	45000	140	28	0.002	0.016	31050	60	20	0.001	0.012	19040	35	12	0.001	0.010
0.2	2	45000	140	28	0.002	0.010	31050	60	20	0.001	0.008	19040	35	12	0.001	0.006
0.3	1	50000	200	47	0.002	0.042	32000	85	30	0.001	0.032	20000	50	19	0.001	0.025
0.3	2	45000	160	42	0.002	0.024	28800	70	27	0.001	0.018	18000	40	17	0.001	0.014
0.3	3	45000	160	42	0.002	0.015	28800	70	27	0.001	0.011	18000	40	17	0.001	0.009
0.4	1	50000	200	63	0.002	0.080	32000	85	40	0.001	0.060	20000	50	25	0.001	0.048
0.4	1.5	50000	200	63	0.002	0.056	32000	85	40	0.001	0.042	20000	50	25	0.001	0.034
0.4	2	50000	200	63	0.002	0.056	32000	85	40	0.001	0.042	20000	50	25	0.001	0.034
0.4	2.5	45000	160	57	0.002	0.032	28800	70	36	0.001	0.024	18000	40	23	0.001	0.019
0.4	3	45000	160	57	0.002	0.032	28800	70	36	0.001	0.024	18000	40	23	0.001	0.019
0.4	4	45000	160	57	0.002	0.020	28800	70	36	0.001	0.015	18000	40	23	0.001	0.012
0.5	1	43000	220	68	0.003	0.100	28000	95	44	0.002	0.075	17100	60	27	0.002	0.060
0.5	1.5	43000	220	68	0.003	0.100	28000	95	44	0.002	0.075	17100	60	27	0.002	0.060
0.5	2	43000	220	68	0.003	0.070	28000	95	44	0.002	0.053	17100	60	27	0.002	0.042
0.5	2.5	43000	220	68	0.003	0.070	28000	95	44	0.002	0.053	17100	60	27	0.002	0.042
0.5	3	38700	180	61	0.002	0.040	25200	75	40	0.001	0.030	15390	50	24	0.002	0.024
0.5	4	38700	180	61	0.002	0.040	25200	75	40	0.001	0.030	15390	50	24	0.002	0.024
0.5	5	38700	180	61	0.002	0.025	25200	75	40	0.001	0.019	15390	50	24	0.002	0.015
0.5	6	34400	140	54	0.002	0.025	22400	60	35	0.001	0.019	13680	40	21	0.001	0.015
0.6	2	36400	250	69	0.003	0.084	24000	110	45	0.002	0.063	14500	65	27	0.002	0.050
0.6	3	36400	250	69	0.003	0.084	24000	110	45	0.002	0.063	14500	65	27	0.002	0.050
0.6	4	32760	205	62	0.003	0.048	21600	90	41	0.002	0.036	13050	55	25	0.002	0.029
0.6	6	32760	205	62	0.003	0.030	21600	90	41	0.002	0.023	13050	55	25	0.002	0.018
0.6	8	29120	160	55	0.003	0.018	19200	70	36	0.002	0.014	11600	40	22	0.002	0.011
0.6	10	21840	105	41	0.002	0.012	14400	45	27	0.002	0.009	8700	25	16	0.001	0.007
0.7	2	36400	250	80	0.003	0.140	24000	110	53	0.002	0.105	14500	65	32	0.002	0.084
0.7	4	32760	205	72	0.003	0.056	21600	90	48	0.002	0.042	13050	55	29	0.002	0.034
0.7	6	32760	205	72	0.003	0.035	21600	90	48	0.002	0.026	13050	55	29	0.002	0.021
0.7	8	29120	160	64	0.003	0.035	19200	70	42	0.002	0.026	11600	40	26	0.002	0.021
0.7	10	29120	160	64	0.003	0.021	19200	70	42	0.002	0.016	11600	40	26	0.002	0.013
0.8	2	36400	250	91	0.003	0.160	24000	110	60	0.002	0.120	14500	65	36	0.002	0.096
0.8	3	36400	250	91	0.003	0.112	24000	110	60	0.002	0.084	14500	65	36	0.002	0.067
0.8	4	36400	250	91	0.003	0.112	24000	110	60	0.002	0.084	14500	65	36	0.002	0.067
0.8	6	32760	205	82	0.003	0.064	21600	90	54	0.002	0.048	13050	55	33	0.002	0.038
0.8	8	32760	205	82	0.003	0.040	21600	90	54	0.002	0.030	13050	55	33	0.002	0.024
0.8	10	29120	160	73	0.003	0.040	19200	70	48	0.002	0.030	11600	40	29	0.002	0.024
1.0	3	33100	280	104	0.004	0.200	21600	120	68	0.003	0.150	13200	70	41	0.003	0.120
1.0	4	33100	280	104	0.004	0.140	21600	120	68	0.003	0.105	13200	70	41	0.003	0.084
1.0	6	29790	225	94	0.004	0.080	19440	95	61	0.002	0.060	11880	55	37	0.002	0.048
1.0	8	29790	225	94	0.004	0.080	19440	95	61	0.002	0.060	11880	55	37	0.002	0.048
1.0	10	29790	225	94	0.004	0.050	19440	95	61	0.002	0.038	11880	55	37	0.002	0.030
1.0	12	26480	180	83	0.003	0.050	17280	75	54	0.002	0.038	10560	45	33	0.002	0.030
1.0	14	26480	180	83	0.003	0.030	17280	75	54	0.002	0.023	10560	45	33	0.002	0.018
1.0	16	19860	120	62	0.003	0.030	12960	50	41	0.002	0.023	7920	30	25	0.002	0.018
1.0	20	19860	120	62	0.003	0.020	12960	50	41	0.002	0.015	7920	30	25	0.002	0.012

DIA. = Diameter
LBS = Length Below Shank

RPM = rev./min.
FEED = mm/min.

Vc = m/min.
Fz = mm/tooth



CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS

SEME61 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)
1.2	3	29750	290	112	0.005	0.240	18900	125	71	0.003	0.180	11700	70	44	0.003	0.144
1.2	4	29750	290	112	0.005	0.168	18900	125	71	0.003	0.126	11700	70	44	0.003	0.101
1.2	6	29750	290	112	0.005	0.168	18900	125	71	0.003	0.126	11700	70	44	0.003	0.101
1.2	8	26780	235	101	0.004	0.096	17010	100	64	0.003	0.072	10530	55	40	0.003	0.058
1.2	10	26780	235	101	0.004	0.060	17010	100	64	0.003	0.045	10530	55	40	0.003	0.036
1.2	12	26780	235	101	0.004	0.060	17010	100	64	0.003	0.045	10530	55	40	0.003	0.036
1.2	16	23800	185	90	0.004	0.036	15120	80	57	0.003	0.027	9360	45	35	0.002	0.022
1.2	20	17850	120	67	0.003	0.024	11340	55	43	0.002	0.018	7020	30	26	0.002	0.014
1.5	4	26400	300	124	0.006	0.300	16200	130	76	0.004	0.225	10200	70	48	0.003	0.180
1.5	6	26400	300	124	0.006	0.210	16200	130	76	0.004	0.158	10200	70	48	0.003	0.126
1.5	8	23760	245	112	0.005	0.120	14580	105	69	0.004	0.090	9180	55	43	0.003	0.072
1.5	10	23760	245	112	0.005	0.120	14580	105	69	0.004	0.090	9180	55	43	0.003	0.072
1.5	12	23760	245	112	0.005	0.120	14580	105	69	0.004	0.090	9180	55	43	0.003	0.072
1.5	14	23760	245	112	0.005	0.075	14580	105	69	0.004	0.056	9180	55	43	0.003	0.045
1.5	16	21120	190	100	0.004	0.075	12960	85	61	0.003	0.056	8160	45	38	0.003	0.045
1.5	20	21120	190	100	0.004	0.045	12960	85	61	0.003	0.034	8160	45	38	0.003	0.027
1.5	22	21120	190	100	0.004	0.045	12960	85	61	0.003	0.034	8160	45	38	0.003	0.027
1.5	26	15840	125	75	0.004	0.030	9720	55	46	0.003	0.023	6120	30	29	0.002	0.018
2.0	6	21600	310	136	0.007	0.400	13800	140	87	0.005	0.300	8640	80	54	0.005	0.240
2.0	8	21600	310	136	0.007	0.280	13800	140	87	0.005	0.210	8640	80	54	0.005	0.168
2.0	10	21600	310	136	0.007	0.280	13800	140	87	0.005	0.210	8640	80	54	0.005	0.168
2.0	12	19440	250	122	0.006	0.160	12420	115	78	0.005	0.120	7780	65	49	0.004	0.096
2.0	14	19440	250	122	0.006	0.160	12420	115	78	0.005	0.120	7780	65	49	0.004	0.096
2.0	16	19440	250	122	0.006	0.160	12420	115	78	0.005	0.120	7780	65	49	0.004	0.096
2.0	20	19440	250	122	0.006	0.100	12420	115	78	0.005	0.075	7780	65	49	0.004	0.060
2.0	22	17280	200	109	0.006	0.100	11040	90	69	0.004	0.075	6910	50	43	0.004	0.060
2.0	26	17280	200	109	0.006	0.100	11040	90	69	0.004	0.075	6910	50	43	0.004	0.060
2.0	30	17280	200	109	0.006	0.060	11040	90	69	0.004	0.045	6910	50	43	0.004	0.036
2.5	8	18000	320	141	0.009	0.350	11400	150	90	0.007	0.263	7320	80	57	0.005	0.210
2.5	10	18000	320	141	0.009	0.350	11400	150	90	0.007	0.263	7320	80	57	0.005	0.210
2.5	12	18000	320	141	0.009	0.350	11400	150	90	0.007	0.263	7320	80	57	0.005	0.210
2.5	14	16200	260	127	0.008	0.200	10260	120	81	0.006	0.150	6590	65	52	0.005	0.120
2.5	16	16200	260	127	0.008	0.200	10260	120	81	0.006	0.150	6590	65	52	0.005	0.120
2.5	20	16200	260	127	0.008	0.200	10260	120	81	0.006	0.150	6590	65	52	0.005	0.120
2.5	26	14400	205	113	0.007	0.125	9120	95	72	0.005	0.094	5860	50	46	0.004	0.075
2.5	30	14400	205	113	0.007	0.125	9120	95	72	0.005	0.094	5860	50	46	0.004	0.075
3.0	8	15900	330	150	0.010	0.600	10300	160	97	0.008	0.450	6300	80	59	0.006	0.360
3.0	10	15900	330	150	0.010	0.420	10300	160	97	0.008	0.315	6300	80	59	0.006	0.252
3.0	12	15900	330	150	0.010	0.420	10300	160	97	0.008	0.315	6300	80	59	0.006	0.252
3.0	14	15900	330	150	0.010	0.420	10300	160	97	0.008	0.315	6300	80	59	0.006	0.252
3.0	16	14310	265	135	0.009	0.240	9270	130	87	0.007	0.180	5670	65	53	0.006	0.144
3.0	20	14310	265	135	0.009	0.240	9270	130	87	0.007	0.180	5670	65	53	0.006	0.144
3.0	26	14310	265	135	0.009	0.150	9270	130	87	0.007	0.113	5670	65	53	0.006	0.090
3.0	30	14310	265	135	0.009	0.150	9270	130	87	0.007	0.113	5670	65	53	0.006	0.090
3.0	35	12720	210	120	0.008	0.150	8240	100	78	0.006	0.113	5040	50	48	0.005	0.090
3.0	40	12720	210	120	0.008	0.090	8240	100	78	0.006	0.068	5040	50	48	0.005	0.054
4.0	10	12800	400	161	0.016	0.800	8200	200	103	0.012	0.600	5150	95	65	0.009	0.480

DIA. = Diameter
LBS = Length Below Shank

RPM = rev./min.
FEED = mm/min.

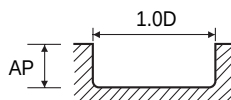
Vc = m/min.
Fz = mm/tooth



CARBIDE, 2 FLUTE LONG NECK CORNER RADIUS

SEME61 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)
4.0	12	12800	400	161	0.016	0.800	8200	200	103	0.012	0.600	5150	95	65	0.009	0.480
4.0	14	12800	400	161	0.016	0.560	8200	200	103	0.012	0.420	5150	95	65	0.009	0.336
4.0	16	12800	400	161	0.016	0.560	8200	200	103	0.012	0.420	5150	95	65	0.009	0.336
4.0	20	12800	400	161	0.016	0.560	8200	200	103	0.012	0.420	5150	95	65	0.009	0.336
4.0	26	11520	325	145	0.014	0.320	7380	160	93	0.011	0.240	4640	75	58	0.008	0.192
4.0	30	11520	325	145	0.014	0.320	7380	160	93	0.011	0.240	4640	75	58	0.008	0.192
4.0	35	11520	325	145	0.014	0.200	7380	160	93	0.011	0.150	4640	75	58	0.008	0.120
4.0	40	11520	325	145	0.014	0.200	7380	160	93	0.011	0.150	4640	75	58	0.008	0.120
4.0	45	10240	255	129	0.012	0.200	6560	130	82	0.010	0.150	4120	60	52	0.007	0.120
4.0	50	10240	255	129	0.012	0.200	6560	130	82	0.010	0.150	4120	60	52	0.007	0.120
5.0	15	11000	500	173	0.023	1.000	7000	240	110	0.017	0.750	4560	120	72	0.013	0.600
6.0	20	9500	600	179	0.032	0.840	6000	300	113	0.025	0.630	3930	140	74	0.018	0.504
6.0	30	9500	600	179	0.032	0.840	6000	300	113	0.025	0.630	3930	140	74	0.018	0.504
8.0	25	7200	640	181	0.044	1.120	4550	300	114	0.033	0.840	3020	140	76	0.023	0.672
8.0	35	7200	640	181	0.044	1.120	4550	300	114	0.033	0.840	3020	140	76	0.023	0.672
10.0	30	6000	640	188	0.053	2.000	4000	300	126	0.038	1.500	2420	140	76	0.029	1.200
10.0	40	6000	640	188	0.053	1.400	4000	300	126	0.038	1.050	2420	140	76	0.029	0.840
12.0	32	5000	500	188	0.050	2.400	3340	270	126	0.040	1.800	2000	120	75	0.030	1.440
12.0	45	5000	500	188	0.050	1.680	3340	270	126	0.040	1.260	2000	120	75	0.030	1.008
16.0	35	3720	450	187	0.060	3.200	2520	210	127	0.042	2.400	1540	95	77	0.031	1.920
16.0	50	3720	450	187	0.060	2.240	2520	210	127	0.042	1.680	1540	95	77	0.031	1.344
20.0	40	3000	330	188	0.055	4.000	1950	140	123	0.036	3.000	1200	70	75	0.029	2.400
20.0	55	3000	330	188	0.055	4.000	1950	140	123	0.036	3.000	1200	70	75	0.029	2.400



DIA. = Diameter
LBS = Length Below Shank

RPM = rev./min.
FEED = mm/min.

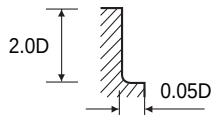
Vc = m/min.
Fz = mm/tooth



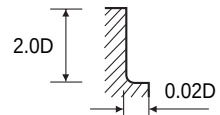
CARBIDE, 4 FLUTE CORNER RADIUS

SEME01 SERIES

MATERIAL	P											
	NON-ALLOYED STEELS ALLOY STEELS CAST IRON				ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS			
	~ HRC 35				HRC 35 ~ HRC 45				HRC 45 ~ HRC 55			
	~ 1100N/mm ²				1110 ~ 1500N/mm ²				1500 ~ 2000N/mm ²			
DIAMETER	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
1.0	27600	300	87	0.003	18000	220	57	0.003	11000	120	35	0.003
1.2	24800	305	93	0.003	15750	225	59	0.004	9750	120	37	0.003
1.5	22000	310	104	0.004	13500	230	64	0.004	8500	120	40	0.004
2.0	18000	320	113	0.004	11560	240	73	0.005	7200	130	45	0.005
2.5	15000	330	118	0.006	9500	250	75	0.007	6100	130	48	0.005
3.0	13240	340	125	0.006	8560	260	81	0.008	5280	130	50	0.006
3.5	11980	380	132	0.008	7690	280	85	0.009	4790	135	53	0.007
4.0	10720	420	135	0.010	6820	300	86	0.011	4300	140	54	0.008
4.5	9940	425	141	0.011	6310	330	89	0.013	4050	155	57	0.010
5.0	9160	430	144	0.012	5800	360	91	0.016	3800	170	60	0.011
5.5	8530	430	147	0.013	5420	360	94	0.017	3540	170	61	0.012
6.0	7900	430	149	0.014	5040	360	95	0.018	3280	170	62	0.013
7.0	6950	445	153	0.016	4420	360	97	0.020	2900	170	64	0.015
8.0	6000	460	151	0.019	3800	360	96	0.024	2520	170	63	0.017
10.0	5040	460	158	0.023	3280	360	103	0.027	2020	170	63	0.021
11.0	4580	410	158	0.022	3030	340	105	0.028	1850	155	64	0.021
12.0	4120	360	155	0.022	2780	320	105	0.029	1680	140	63	0.021
14.0	3610	320	159	0.022	2440	275	107	0.028	1480	125	65	0.021
16.0	3100	280	156	0.023	2100	230	106	0.027	1280	115	64	0.022
20.0	2520	230	158	0.023	1640	180	103	0.027	1000	90	63	0.023



* 1.5XD Axial cutting depth should be for DIA over 16mm



RPM = rev./min. Vc = m/min.
FEED = mm/min. Fz = mm/tooth



CARBIDE, 4 FLUTE LONG NECK CORNER RADIUS

SEME64 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ae(mm)	RPM	FEED	Vc	Fz	Ae(mm)	RPM	FEED	Vc	Fz	Ae(mm)
1.0	4	33100	360	104	0.003	0.021	21600	260	68	0.003	0.016	13200	140	41	0.003	0.013
1.0	6	29790	290	94	0.002	0.012	19440	210	61	0.003	0.009	11880	115	37	0.002	0.007
1.0	8	29790	290	94	0.002	0.012	19440	210	61	0.003	0.009	11880	115	37	0.002	0.007
1.0	10	29790	290	94	0.002	0.008	19440	210	61	0.003	0.006	11880	115	37	0.002	0.005
1.0	12	26480	230	83	0.002	0.008	17280	165	54	0.002	0.006	10560	90	33	0.002	0.005
1.0	16	19860	150	62	0.002	0.005	12960	110	41	0.002	0.003	7920	60	25	0.002	0.003
1.0	20	19860	150	62	0.002	0.003	12960	110	41	0.002	0.002	7920	60	25	0.002	0.002
1.0	22	9930	65	31	0.002	0.003	6480	45	20	0.002	0.002	3960	25	12	0.002	0.002
1.0	26	9930	65	31	0.002	0.003	6480	45	20	0.002	0.002	3960	25	12	0.002	0.002
1.2	3	29750	365	112	0.003	0.036	18900	265	71	0.004	0.027	11700	140	44	0.003	0.022
1.2	4	29750	365	112	0.003	0.025	18900	265	71	0.004	0.019	11700	140	44	0.003	0.015
1.2	6	29750	365	112	0.003	0.025	18900	265	71	0.004	0.019	11700	140	44	0.003	0.015
1.2	8	26780	295	101	0.003	0.014	17010	215	64	0.003	0.011	10530	115	40	0.003	0.009
1.2	10	26780	295	101	0.003	0.009	17010	215	64	0.003	0.007	10530	115	40	0.003	0.005
1.2	12	26780	295	101	0.003	0.009	17010	215	64	0.003	0.007	10530	115	40	0.003	0.005
1.2	16	23800	235	90	0.002	0.005	15120	170	57	0.003	0.004	9360	90	35	0.002	0.003
1.2	20	17850	155	67	0.002	0.004	11340	110	43	0.002	0.003	7020	60	26	0.002	0.002
1.5	4	26400	370	124	0.004	0.045	16200	270	76	0.004	0.034	10200	140	48	0.003	0.027
1.5	6	26400	370	124	0.004	0.032	16200	270	76	0.004	0.024	10200	140	48	0.003	0.019
1.5	8	23760	300	112	0.003	0.018	14580	220	69	0.004	0.014	9180	115	43	0.003	0.011
1.5	10	23760	300	112	0.003	0.018	14580	220	69	0.004	0.014	9180	115	43	0.003	0.011
1.5	12	23760	300	112	0.003	0.018	14580	220	69	0.004	0.014	9180	115	43	0.003	0.011
1.5	14	23760	300	112	0.003	0.011	14580	220	69	0.004	0.008	9180	115	43	0.003	0.007
1.5	16	21120	235	100	0.003	0.011	12960	175	61	0.003	0.008	8160	90	38	0.003	0.007
1.5	20	21120	235	100	0.003	0.007	12960	175	61	0.003	0.005	8160	90	38	0.003	0.004
1.5	22	21120	235	100	0.003	0.007	12960	175	61	0.003	0.005	8160	90	38	0.003	0.004
1.5	26	15840	155	75	0.002	0.005	9720	115	46	0.003	0.003	6120	60	29	0.002	0.003
2.0	6	21600	380	136	0.004	0.060	13800	280	87	0.005	0.045	8640	150	54	0.004	0.036
2.0	8	21600	380	136	0.004	0.042	13800	280	87	0.005	0.032	8640	150	54	0.004	0.025
2.0	10	21600	380	136	0.004	0.042	13800	280	87	0.005	0.032	8640	150	54	0.004	0.025
2.0	12	19440	310	122	0.004	0.024	12420	225	78	0.005	0.018	7780	120	49	0.004	0.014
2.0	14	19440	310	122	0.004	0.024	12420	225	78	0.005	0.018	7780	120	49	0.004	0.014
2.0	16	19440	310	122	0.004	0.024	12420	225	78	0.005	0.018	7780	120	49	0.004	0.014
2.0	20	19440	310	122	0.004	0.015	12420	225	78	0.005	0.011	7780	120	49	0.004	0.009
2.0	22	17280	245	109	0.004	0.015	11040	180	69	0.004	0.011	6910	95	43	0.003	0.009
2.0	26	17280	245	109	0.004	0.015	11040	180	69	0.004	0.011	6910	95	43	0.003	0.009
2.0	30	17280	245	109	0.004	0.009	11040	180	69	0.004	0.007	6910	95	43	0.003	0.005
2.5	8	18000	390	141	0.005	0.053	11400	300	90	0.007	0.039	7320	150	57	0.005	0.032
2.5	10	18000	390	141	0.005	0.053	11400	300	90	0.007	0.039	7320	150	57	0.005	0.032
2.5	12	18000	390	141	0.005	0.053	11400	300	90	0.007	0.039	7320	150	57	0.005	0.032
2.5	14	16200	315	127	0.005	0.030	10260	245	81	0.006	0.023	6590	120	52	0.005	0.018
2.5	16	16200	315	127	0.005	0.030	10260	245	81	0.006	0.023	6590	120	52	0.005	0.018
2.5	20	16200	315	127	0.005	0.030	10260	245	81	0.006	0.023	6590	120	52	0.005	0.018
2.5	26	14400	250	113	0.004	0.019	9120	190	72	0.005	0.014	5860	95	46	0.004	0.011
2.5	30	14400	250	113	0.004	0.019	9120	190	72	0.005	0.014	5860	95	46	0.004	0.011

DIA. = Diameter
LBS = Length Below Shank

RPM = rev./min.
FEED = mm/min.

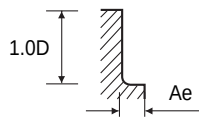
Vc = m/min.
Fz = mm/tooth



CARBIDE, 4 FLUTE LONG NECK CORNER RADIUS

SEME64 SERIES

MATERIAL		P														
		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ae(mm)	RPM	FEED	Vc	Fz	Ae(mm)	RPM	FEED	Vc	Fz	Ae(mm)
3.0	8	15900	400	150	0.006	0.090	10300	310	97	0.008	0.068	6300	150	59	0.006	0.054
3.0	10	15900	400	150	0.006	0.063	10300	310	97	0.008	0.047	6300	150	59	0.006	0.038
3.0	12	15900	400	150	0.006	0.063	10300	310	97	0.008	0.047	6300	150	59	0.006	0.038
3.0	14	15900	400	150	0.006	0.063	10300	310	97	0.008	0.047	6300	150	59	0.006	0.038
3.0	16	14310	325	135	0.006	0.036	9270	250	87	0.007	0.027	5670	120	53	0.005	0.022
3.0	20	14310	325	135	0.006	0.036	9270	250	87	0.007	0.027	5670	120	53	0.005	0.022
3.0	26	14310	325	135	0.006	0.023	9270	250	87	0.007	0.017	5670	120	53	0.005	0.014
3.0	30	14310	325	135	0.006	0.023	9270	250	87	0.007	0.017	5670	120	53	0.005	0.014
3.0	35	12720	255	120	0.005	0.023	8240	200	78	0.006	0.017	5040	95	48	0.005	0.014
3.0	40	12720	255	120	0.005	0.014	8240	200	78	0.006	0.010	5040	95	48	0.005	0.008
4.0	10	12800	500	161	0.010	0.120	8200	360	103	0.011	0.090	5150	160	65	0.008	0.072
4.0	12	12800	500	161	0.010	0.120	8200	360	103	0.011	0.090	5150	160	65	0.008	0.072
4.0	14	12800	500	161	0.010	0.084	8200	360	103	0.011	0.063	5150	160	65	0.008	0.050
4.0	16	12800	500	161	0.010	0.084	8200	360	103	0.011	0.063	5150	160	65	0.008	0.050
4.0	20	12800	500	161	0.010	0.084	8200	360	103	0.011	0.063	5150	160	65	0.008	0.050
4.0	26	11520	405	145	0.009	0.048	7380	290	93	0.010	0.036	4640	130	58	0.007	0.029
4.0	30	11520	405	145	0.009	0.048	7380	290	93	0.010	0.036	4640	130	58	0.007	0.029
4.0	35	11520	405	145	0.009	0.030	7380	290	93	0.010	0.023	4640	130	58	0.007	0.018
4.0	40	11520	405	145	0.009	0.030	7380	290	93	0.010	0.023	4640	130	58	0.007	0.018
4.0	45	10240	320	129	0.008	0.030	6560	230	82	0.009	0.023	4120	100	52	0.006	0.018
4.0	50	10240	320	129	0.008	0.030	6560	230	82	0.009	0.023	4120	100	52	0.006	0.018
5.0	15	11000	510	173	0.012	0.150	7000	430	110	0.015	0.113	4560	200	72	0.011	0.090
6.0	20	9500	510	179	0.013	0.126	6000	430	113	0.018	0.095	3930	200	74	0.013	0.076
6.0	30	9500	510	179	0.013	0.126	6000	430	113	0.018	0.095	3930	200	74	0.013	0.076
8.0	25	7200	550	181	0.019	0.168	4550	430	114	0.024	0.126	3020	200	76	0.017	0.101
8.0	35	7200	550	181	0.019	0.168	4550	430	114	0.024	0.126	3020	200	76	0.017	0.101
10.0	30	6000	550	188	0.023	0.300	4000	430	126	0.027	0.225	2420	200	76	0.021	0.180
10.0	40	6000	550	188	0.023	0.210	4000	430	126	0.027	0.158	2420	200	76	0.021	0.126
12.0	32	5000	430	188	0.022	0.360	3340	380	126	0.028	0.270	2000	160	75	0.020	0.216
12.0	45	5000	430	188	0.022	0.252	3340	380	126	0.028	0.189	2000	160	75	0.020	0.151
16.0	35	3720	330	187	0.022	0.480	2520	280	127	0.028	0.360	1540	135	77	0.022	0.288
16.0	50	3720	330	187	0.022	0.336	2520	280	127	0.028	0.252	1540	135	77	0.022	0.202
20.0	40	3000	270	188	0.023	0.600	1950	210	123	0.027	0.450	1200	100	75	0.021	0.360
20.0	55	3000	270	188	0.023	0.600	1950	210	123	0.027	0.450	1200	100	75	0.021	0.360



DIA. = Diameter
LBS = Length Below Shank

RPM = rev./min.
FEED = mm/min.

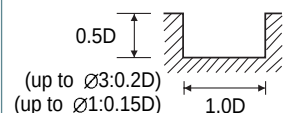
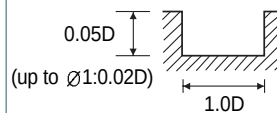
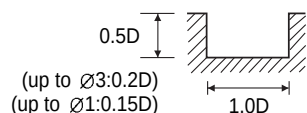
Vc = m/min.
Fz = mm/tooth



CARBIDE, 2 FLUTE

SEME35 SERIES

MATERIAL	P												M			
	NON-ALLOYED STEELS ALLOY STEELS CAST IRON				ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS				STAINLESS STEELS			
HARDNESS	~ HRC 35				HRC 35 ~ HRC 45				HRC 45 ~ HRC 55							
STRENGTH	~ 1100N/mm ²				1110 ~ 1500N/mm ²				1500 ~ 2000N/mm ²							
DIAMETER	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
0.1	42000	80	13	0.001	25200	47	8	0.001	16800	16	5	0.000	21000	40	7	0.001
0.2	42000	85	26	0.001	25200	50	16	0.001	16800	17	11	0.001	21000	39	13	0.001
0.3	39000	90	37	0.001	23400	54	22	0.001	15600	18	15	0.001	19500	45	18	0.001
0.4	39000	95	49	0.001	23400	57	29	0.001	15600	19	20	0.001	19500	47	25	0.001
0.5	36000	110	57	0.002	21600	66	34	0.002	14400	22	23	0.001	18000	55	28	0.002
0.6	32000	125	60	0.002	19200	76	36	0.002	12800	25	24	0.001	16000	63	30	0.002
0.7	28000	140	62	0.003	16800	85	37	0.003	11200	28	25	0.001	14000	70	31	0.003
0.8	25000	155	63	0.003	15000	95	38	0.003	10000	32	25	0.002	12500	79	31	0.003
0.9	23500	165	66	0.004	14100	98	40	0.003	9400	33	27	0.002	11750	81	33	0.003
1.0	21500	170	68	0.004	12900	101	41	0.004	8600	34	27	0.002	10750	84	34	0.004
1.2	18000	175	68	0.005	10800	104	41	0.005	7200	35	27	0.002	9000	87	34	0.005
1.5	15000	180	71	0.006	9000	107	42	0.006	6000	36	28	0.003	7500	89	35	0.006
2.0	11560	200	73	0.009	7560	125	48	0.008	5040	37	32	0.004	6300	95	40	0.008
2.5	10240	210	80	0.010	6560	135	52	0.010	4200	39	33	0.005	5460	110	43	0.010
3.0	8920	220	84	0.012	5560	145	52	0.013	3360	42	32	0.006	4620	125	44	0.014
3.5	8240	270	91	0.016	5090	170	56	0.017	3150	42	35	0.007	4250	140	47	0.016
4.0	7560	315	95	0.021	4620	190	58	0.021	2940	42	37	0.007	3880	160	49	0.021
4.5	6930	325	98	0.023	4200	195	59	0.023	2630	47	37	0.009	3520	165	50	0.023
5.0	6300	335	99	0.027	3780	200	59	0.026	2320	53	36	0.011	3160	170	50	0.027
5.5	5930	350	102	0.030	3570	215	62	0.030	2160	55	37	0.013	3000	180	52	0.030
6.0	5560	370	105	0.033	3360	230	63	0.034	2000	58	38	0.015	2840	190	54	0.033
6.5	5220	375	107	0.036	3150	225	64	0.036	1920	63	39	0.016	2655	190	54	0.036
7.0	4880	385	107	0.039	2940	220	65	0.037	1840	68	40	0.018	2470	190	54	0.038
7.5	4540	390	107	0.043	2730	215	64	0.039	1760	74	41	0.021	2285	190	54	0.042
8.0	4200	400	106	0.048	2520	210	63	0.042	1680	79	42	0.024	2100	190	53	0.045
8.5	3965	385	106	0.049	2390	200	64	0.042	1600	74	43	0.023	1995	185	53	0.046
9.0	3730	375	105	0.050	2260	190	64	0.042	1520	68	43	0.022	1890	180	53	0.048
9.5	3495	355	104	0.051	2130	180	64	0.042	1440	63	43	0.022	1785	175	53	0.049
10.0	3260	345	102	0.053	2000	170	63	0.043	1360	63	43	0.023	1680	170	53	0.051
10.5	3130	330	103	0.053	1920	160	63	0.042	1310	61	43	0.023	1600	160	53	0.050
11.0	3000	320	104	0.053	1840	150	64	0.041	1260	58	44	0.023	1520	150	53	0.049
11.5	2870	305	104	0.053	1760	140	64	0.040	1210	58	44	0.024	1440	140	52	0.049
12.0	2740	295	103	0.054	1680	135	63	0.040	1160	58	44	0.025	1360	135	51	0.050
13.0	2605	280	106	0.054	1600	130	65	0.041	1095	55	45	0.025	1285	130	52	0.051
14.0	2470	265	109	0.054	1520	125	67	0.041	1030	49	45	0.024	1210	125	53	0.052
15.0	2335	245	110	0.052	1440	120	68	0.042	965	45	45	0.023	1135	120	53	0.053
16.0	2200	230	111	0.052	1360	115	68	0.042	900	42	45	0.023	1060	115	53	0.054
17.0	2070	215	111	0.052	1285	105	69	0.041	845	39	45	0.023	1005	105	54	0.052
18.0	1940	205	110	0.053	1210	100	68	0.041	790	37	45	0.023	950	100	54	0.053
19.0	1810	190	108	0.052	1135	90	68	0.040	735	34	44	0.023	895	90	53	0.050
20.0	1680	180	106	0.054	1060	84	67	0.040	680	32	43	0.024	840	84	53	0.050
21.0	1615	170	107	0.053	1015	82	67	0.040	650	29	43	0.022	800	80	53	0.050
22.0	1550	165	107	0.053	970	80	67	0.041	620	27	43	0.022	775	76	54	0.049
23.0	1480	150	107	0.051	925	78	67	0.042	600	25	43	0.021	745	71	54	0.048
24.0	1425	140	107	0.049	885	76	67	0.043	570	23	43	0.020	715	67	54	0.047
25.0	1360	135	107	0.050	840	74	66	0.044	540	21	42	0.019	680	63	53	0.046



RPM = rev./min.
FEED = mm/min.

Vc = m/min.
Fz = mm/tooth



CARBIDE, 2 FLUTE LONG LENGTH

SEME70 SERIES

		P											
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON				ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS			
HARDNESS		~ HRC 35				HRC 35 ~ HRC 45				HRC 45 ~ HRC 55			
STRENGTH		~ 1100N/mm ²				1110 ~ 1500N/mm ²				1500 ~ 2000N/mm ²			
DIA.	LOC	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
1.0	3	16000	70	50	0.002	12800	60	40	0.002	8000	30	25	0.002
1.0	4	16000	70	50	0.002	12800	60	40	0.002	8000	30	25	0.002
1.0	5	16000	70	50	0.002	12800	60	40	0.002	8000	30	25	0.002
1.0	6	14400	55	45	0.002	11520	50	36	0.002	7200	25	23	0.002
1.0	7	14400	55	45	0.002	11520	50	36	0.002	7200	25	23	0.002
1.0	8	14400	50	45	0.002	11520	45	36	0.002	7200	20	23	0.001
1.0	10	14400	50	45	0.002	11520	45	36	0.002	7200	20	23	0.001
1.0	12	12800	40	40	0.002	10240	35	32	0.002	6400	15	20	0.001
1.2	4	13500	75	51	0.003	10800	65	41	0.003	6750	30	25	0.002
1.2	6	13500	75	51	0.003	10800	65	41	0.003	6750	30	25	0.002
1.2	8	12150	60	46	0.002	9720	50	37	0.003	6080	25	23	0.002
1.2	10	12150	55	46	0.002	9720	45	37	0.002	6080	20	23	0.002
1.2	12	12150	55	46	0.002	9720	45	37	0.002	6080	20	23	0.002
1.5	6	11200	80	53	0.004	8960	70	42	0.004	5600	30	26	0.003
1.5	8	10080	70	48	0.003	8060	60	38	0.004	5040	30	24	0.003
1.5	10	10080	65	48	0.003	8060	55	38	0.003	5040	25	24	0.002
1.5	12	10080	60	48	0.003	8060	50	38	0.003	5040	25	24	0.002
1.5	14	10080	60	48	0.003	8060	50	38	0.003	5040	25	24	0.002
1.5	16	8960	45	42	0.003	7170	40	34	0.003	4480	20	21	0.002
2.0	8	9070	85	57	0.005	7260	70	46	0.005	4540	35	29	0.004
2.0	10	9070	85	57	0.005	7260	70	46	0.005	4540	35	29	0.004
2.0	12	8160	70	51	0.004	6530	60	41	0.005	4090	30	26	0.004
2.0	14	8160	70	51	0.004	6530	60	41	0.005	4090	30	26	0.004
2.0	16	8160	60	51	0.004	6530	50	41	0.004	4090	25	26	0.003
2.5	10	7700	95	60	0.006	6200	80	49	0.006	3850	40	30	0.005
2.5	12	7700	95	60	0.006	6200	80	49	0.006	3850	40	30	0.005
2.5	16	6930	75	54	0.005	5580	65	44	0.006	3470	30	27	0.004
2.5	20	6930	70	54	0.005	5580	55	44	0.005	3470	30	27	0.004
2.5	26	6160	55	48	0.004	4960	45	39	0.005	3080	20	24	0.003
3.0	10	6350	100	60	0.008	5150	85	49	0.008	3170	40	30	0.006
3.0	12	6350	100	60	0.008	5150	85	49	0.008	3170	40	30	0.006
3.0	14	6350	100	60	0.008	5150	85	49	0.008	3170	40	30	0.006
3.0	16	5720	90	54	0.008	4640	75	44	0.008	2850	40	27	0.007
3.0	20	5720	80	54	0.007	4640	70	44	0.008	2850	35	27	0.006
3.0	26	5720	70	54	0.006	4640	60	44	0.006	2850	30	27	0.005
3.0	30	5720	70	54	0.006	4640	60	44	0.006	2850	30	27	0.005
4.0	12	5150	120	65	0.012	4100	100	52	0.012	2580	50	32	0.010
4.0	16	5150	120	65	0.012	4100	100	52	0.012	2580	50	32	0.010
4.0	20	5150	120	65	0.012	4100	100	52	0.012	2580	50	32	0.010
4.0	26	4640	95	58	0.010	3690	85	46	0.012	2320	40	29	0.009
4.0	30	4640	95	58	0.010	3690	85	46	0.012	2320	40	29	0.009
5.0	20	4400	150	69	0.017	3480	125	55	0.018	2280	55	36	0.012
5.0	25	4400	150	69	0.017	3480	125	55	0.018	2280	55	36	0.012
5.0	30	3960	120	62	0.015	3130	100	49	0.016	2050	45	32	0.011
5.0	35	3960	120	62	0.015	3130	100	49	0.016	2050	45	32	0.011
5.0	40	3960	110	62	0.014	3130	90	49	0.014	2050	40	32	0.010
6.0	15	3800	180	72	0.024	3050	150	57	0.025	1970	70	37	0.018
6.0	20	3800	180	72	0.024	3050	150	57	0.025	1970	70	37	0.018
6.0	25	3800	180	72	0.024	3050	150	57	0.025	1970	70	37	0.018
6.0	30	3800	155	72	0.020	3050	130	57	0.021	1970	60	37	0.015
6.0	35	3420	140	64	0.020	2750	115	52	0.021	1770	55	33	0.016
6.0	40	3420	120	64	0.018	2750	100	52	0.018	1770	50	33	0.014
6.0	45	3420	120	64	0.018	2750	100	52	0.018	1770	50	33	0.014

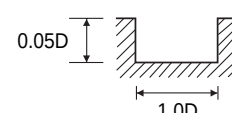
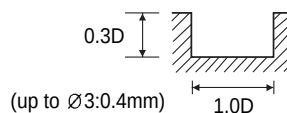
DIA. = Diameter LOC = Length of Cut RPM = rev./min. FEED = mm/min. Vc = m/min. Fz = mm/tooth



CARBIDE, 2 FLUTE LONG LENGTH

SEME70 SERIES

		P											
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON				ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS			
HARDNESS		~ HRC 35				HRC 35 ~ HRC 45				HRC 45 ~ HRC 55			
STRENGTH		~ 1100N/mm ²				1110 ~ 1500N/mm ²				1500 ~ 2000N/mm ²			
DIA.	LOC	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
8.0	25	2880	190	72	0.033	2280	150	57	0.033	1510	70	38	0.023
8.0	30	2880	190	72	0.033	2280	150	57	0.033	1510	70	38	0.023
8.0	35	2880	190	72	0.033	2280	150	57	0.033	1510	70	38	0.023
8.0	40	2880	160	72	0.028	2280	125	57	0.027	1510	60	38	0.020
8.0	45	2590	145	65	0.028	2050	115	52	0.028	1360	55	34	0.020
8.0	50	2590	130	65	0.025	2050	100	52	0.024	1360	50	34	0.018
10.0	30	2450	190	77	0.039	2000	150	63	0.038	1210	70	38	0.029
10.0	35	2450	190	77	0.039	2000	150	63	0.038	1210	70	38	0.029
10.0	40	2450	190	77	0.039	2000	150	63	0.038	1210	70	38	0.029
10.0	45	2450	160	77	0.033	2000	125	63	0.031	1210	60	38	0.025
10.0	50	2450	160	77	0.033	2000	125	63	0.031	1210	60	38	0.025
10.0	55	2210	145	69	0.033	1800	115	57	0.032	1090	55	34	0.025
10.0	60	2210	130	69	0.029	1800	100	57	0.028	1090	50	34	0.023
12.0	35	2000	150	75	0.038	1670	135	63	0.040	1010	55	38	0.027
12.0	40	2000	150	75	0.038	1670	135	63	0.040	1010	55	38	0.027
12.0	45	2000	130	75	0.033	1670	115	63	0.034	1010	45	38	0.022
12.0	50	2000	130	75	0.033	1670	115	63	0.034	1010	45	38	0.022
12.0	55	2000	130	75	0.033	1670	115	63	0.034	1010	45	38	0.022
12.0	60	2000	110	75	0.028	1670	100	63	0.030	1010	40	38	0.020
12.0	65	1800	100	68	0.028	1500	90	57	0.030	910	35	34	0.019
12.0	70	1800	100	68	0.028	1500	90	57	0.030	910	35	34	0.019
14.0	50	1850	125	81	0.034	1480	100	65	0.034	910	45	40	0.025
14.0	60	1850	125	81	0.034	1480	100	65	0.034	910	45	40	0.025
16.0	40	1700	140	85	0.041	1280	105	64	0.041	800	50	40	0.031
16.0	50	1700	140	85	0.041	1280	105	64	0.041	800	50	40	0.031
16.0	60	1700	120	85	0.035	1280	90	64	0.035	800	40	40	0.025
16.0	70	1700	120	85	0.035	1280	90	64	0.035	800	40	40	0.025
16.0	80	1700	105	85	0.031	1280	80	64	0.031	800	35	40	0.022
16.0	90	1530	95	77	0.031	1150	70	58	0.030	720	30	36	0.021
16.0	110	1530	95	77	0.031	1150	70	58	0.030	720	30	36	0.021
16.0	120	1530	95	77	0.031	1150	70	58	0.030	720	30	36	0.021
18.0	50	1450	120	82	0.041	1120	90	63	0.040	700	40	40	0.029
18.0	70	1450	100	82	0.034	1120	75	63	0.033	700	35	40	0.025
18.0	100	1310	80	74	0.031	1000	60	57	0.030	630	30	36	0.024
20.0	50	1220	100	77	0.041	950	75	60	0.039	600	35	38	0.029
20.0	60	1220	100	77	0.041	950	75	60	0.039	600	35	38	0.029
20.0	70	1220	85	77	0.035	950	65	60	0.034	600	30	38	0.025
20.0	80	1220	85	77	0.035	950	65	60	0.034	600	30	38	0.025
20.0	90	1220	75	77	0.031	950	55	60	0.029	600	25	38	0.021
20.0	110	1100	70	69	0.032	860	50	54	0.029	540	25	34	0.023
20.0	120	1100	70	69	0.032	860	50	54	0.029	540	25	34	0.023
22.0	75	1100	75	76	0.034	840	55	58	0.033	550	30	38	0.027
22.0	110	1100	70	76	0.032	840	50	58	0.030	550	25	38	0.023
25.0	70	980	80	77	0.041	750	60	59	0.040	480	30	38	0.031
25.0	90	980	70	77	0.036	750	50	59	0.033	480	25	38	0.026
25.0	110	980	70	77	0.036	750	50	59	0.033	480	25	38	0.026
25.0	120	980	60	77	0.031	750	45	59	0.030	480	25	38	0.026



DIA. = Diameter
LOC = Length of Cut

RPM = rev./min.
FEED = mm/min.

Vc = m/min.
Fz = mm/tooth



CARBIDE, 2 FLUTE LONG NECK

SEM845 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)
0.1	0.3	50000	315	16	0.003	0.009	46200	230	15	0.002	0.007	40600	170	13	0.002	0.005
0.1	0.5	50000	315	16	0.003	0.006	46200	230	15	0.002	0.005	40600	170	13	0.002	0.004
0.1	1	45000	255	14	0.003	0.002	41580	185	13	0.002	0.002	36540	140	11	0.002	0.001
0.2	0.5	38500	380	24	0.005	0.018	36300	270	23	0.004	0.014	32100	200	20	0.003	0.010
0.2	1	38500	380	24	0.005	0.013	36300	270	23	0.004	0.010	32100	200	20	0.003	0.007
0.2	1.5	34650	310	22	0.004	0.007	32670	220	21	0.003	0.006	28890	160	18	0.003	0.004
0.2	2	34650	310	22	0.004	0.005	32670	220	21	0.003	0.004	28890	160	18	0.003	0.003
0.3	1	34200	390	32	0.006	0.019	32300	270	30	0.004	0.015	28500	230	27	0.004	0.011
0.3	1.5	34200	390	32	0.006	0.019	32300	270	30	0.004	0.015	28500	230	27	0.004	0.011
0.3	2	30780	315	29	0.005	0.011	29070	220	27	0.004	0.008	25650	185	24	0.004	0.006
0.3	2.5	30780	315	29	0.005	0.007	29070	220	27	0.004	0.005	25650	185	24	0.004	0.004
0.3	3	30780	315	29	0.005	0.007	29070	220	27	0.004	0.005	25650	185	24	0.004	0.004
0.3	4	27360	250	26	0.005	0.004	25840	175	24	0.003	0.003	22800	145	21	0.003	0.002
0.3	5	20520	165	19	0.004	0.003	19380	115	18	0.003	0.002	17100	95	16	0.003	0.002
0.4	1	27400	540	34	0.010	0.036	25800	380	32	0.007	0.028	22800	280	29	0.006	0.02
0.4	1.5	27400	540	34	0.010	0.025	25800	380	32	0.007	0.020	22800	280	29	0.006	0.014
0.4	2	27400	540	34	0.010	0.025	25800	380	32	0.007	0.020	22800	280	29	0.006	0.014
0.4	2.5	24660	435	31	0.009	0.014	23220	310	29	0.007	0.011	20520	225	26	0.005	0.008
0.4	3	24660	435	31	0.009	0.014	23220	310	29	0.007	0.011	20520	225	26	0.005	0.008
0.4	4	24660	435	31	0.009	0.009	23220	310	29	0.007	0.007	20520	225	26	0.005	0.005
0.4	5	21920	345	28	0.008	0.009	20640	245	26	0.006	0.007	18240	180	23	0.005	0.005
0.4	6	21920	345	28	0.008	0.005	20640	245	26	0.006	0.004	18240	180	23	0.005	0.003
0.4	8	16440	225	21	0.007	0.004	15480	160	19	0.005	0.003	13680	120	17	0.004	0.002
0.4	10	8220	95	10	0.006	0.004	7740	70	10	0.005	0.003	6840	50	9	0.004	0.002
0.5	1	27400	540	43	0.010	0.045	25800	425	41	0.008	0.035	22800	285	36	0.006	0.025
0.5	1.5	27400	540	43	0.010	0.045	25800	425	41	0.008	0.035	22800	285	36	0.006	0.025
0.5	2	27400	540	43	0.010	0.032	25800	425	41	0.008	0.025	22800	285	36	0.006	0.018
0.5	2.5	27400	540	43	0.010	0.032	25800	425	41	0.008	0.025	22800	285	36	0.006	0.018
0.5	3	24660	435	39	0.009	0.018	23220	345	36	0.007	0.014	20520	230	32	0.006	0.010
0.5	4	24660	435	39	0.009	0.018	23220	345	36	0.007	0.014	20520	230	32	0.006	0.010
0.5	5	24660	435	39	0.009	0.011	23220	345	36	0.007	0.009	20520	230	32	0.006	0.006
0.5	6	21920	345	34	0.008	0.011	20640	270	32	0.007	0.009	18240	180	29	0.005	0.006
0.5	8	16440	225	26	0.007	0.007	15480	180	24	0.006	0.005	13680	120	21	0.004	0.004
0.5	10	16440	225	26	0.007	0.005	15480	180	24	0.006	0.004	13680	120	21	0.004	0.003
0.5	12	8220	95	13	0.006	0.005	7740	75	12	0.005	0.004	6840	50	11	0.004	0.003
0.5	14	8220	95	13	0.006	0.005	7740	75	12	0.005	0.004	6840	50	11	0.004	0.003
0.5	16	2740	25	4	0.005	0.005	2580	20	4	0.004	0.004	2280	15	4	0.003	0.003
0.6	2	27400	775	52	0.014	0.038	25800	545	49	0.011	0.029	22800	405	43	0.009	0.021
0.6	3	27400	775	52	0.014	0.038	25800	545	49	0.011	0.029	22800	405	43	0.009	0.021
0.6	4	24660	630	46	0.013	0.022	23220	440	44	0.009	0.017	20520	330	39	0.008	0.012
0.6	5	24660	630	46	0.013	0.014	23220	440	44	0.009	0.011	20520	330	39	0.008	0.008
0.6	6	24660	630	46	0.013	0.014	23220	440	44	0.009	0.011	20520	330	39	0.008	0.008
0.6	8	21920	495	41	0.011	0.008	20640	350	39	0.008	0.006	18240	260	34	0.007	0.005
0.6	10	16440	325	31	0.010	0.005	15480	230	29	0.007	0.004	13680	170	26	0.006	0.003
0.6	12	16440	325	31	0.010	0.005	15480	230	29	0.007	0.004	13680	170	26	0.006	0.003
0.6	14	8220	140	15	0.009	0.005	7740	100	15	0.006	0.004	6840	75	13	0.005	0.003
0.6	16	8220	140	15	0.009	0.005	7740	100	15	0.006	0.004	6840	75	13	0.005	0.003
0.7	2	27400	775	60	0.014	0.063	25800	545	57	0.011	0.049	22800	405	50	0.009	0.035
0.7	4	24660	630	54	0.013	0.025	23220	440	51	0.009	0.020	20520	330	45	0.008	0.014
0.7	6	24660	630	54	0.013	0.016	23220	440	51	0.009	0.012	20520	330	45	0.008	0.009
0.7	8	21920	495	48	0.011	0.016	20640	350	45	0.008	0.012	18240	260	40	0.007	0.009
0.7	10	21920	495	48	0.011	0.009	20640	350	45	0.008	0.007	18240	260	40	0.007	0.005
0.7	12	16440	325	36	0.010	0.006	15480	230	34	0.007	0.005	13680	170	30	0.006	0.004

DIA. = Diameter LBS = Length Below Shank RPM = rev./min. FEED = mm/min. Vc = m/min. Fz = mm/tooth



CARBIDE, 2 FLUTE LONG NECK

SEM845 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)
0.8	2	27400	775	69	0.014	0.072	25800	605	65	0.012	0.056	22800	450	57	0.010	0.040
0.8	3	27400	775	69	0.014	0.050	25800	605	65	0.012	0.039	22800	450	57	0.010	0.028
0.8	4	27400	775	69	0.014	0.050	25800	605	65	0.012	0.039	22800	450	57	0.010	0.028
0.8	5	24660	630	62	0.013	0.029	23220	490	58	0.011	0.022	20520	365	52	0.009	0.016
0.8	6	24660	630	62	0.013	0.029	23220	490	58	0.011	0.022	20520	365	52	0.009	0.016
0.8	8	24660	630	62	0.013	0.018	23220	490	58	0.011	0.014	20520	365	52	0.009	0.010
0.8	10	21920	495	55	0.011	0.018	20640	385	52	0.009	0.014	18240	290	46	0.008	0.010
0.8	12	21920	495	55	0.011	0.011	20640	385	52	0.009	0.008	18240	290	46	0.008	0.006
0.8	14	16440	325	41	0.010	0.007	15480	255	39	0.008	0.006	13680	190	34	0.007	0.004
0.8	16	16440	325	41	0.010	0.007	15480	255	39	0.008	0.006	13680	190	34	0.007	0.004
0.8	20	8220	140	21	0.009	0.007	7740	110	19	0.007	0.006	6840	80	17	0.006	0.004
0.9	6	22140	575	63	0.013	0.032	20970	440	59	0.010	0.025	18450	330	52	0.009	0.018
0.9	8	22140	575	63	0.013	0.020	20970	440	59	0.010	0.016	18450	330	52	0.009	0.011
0.9	10	19680	455	56	0.012	0.020	18640	350	53	0.009	0.016	16400	260	46	0.008	0.011
1.0	2	24600	1045	77	0.021	0.090	23300	890	73	0.019	0.070	20500	665	64	0.016	0.050
1.0	3	24600	1045	77	0.021	0.090	23300	890	73	0.019	0.070	20500	665	64	0.016	0.050
1.0	4	24600	1045	77	0.021	0.063	23300	890	73	0.019	0.049	20500	665	64	0.016	0.035
1.0	5	24600	1045	77	0.021	0.063	23300	890	73	0.019	0.049	20500	665	64	0.016	0.035
1.0	6	22140	845	70	0.019	0.036	20970	720	66	0.017	0.028	18450	540	58	0.015	0.020
1.0	7	22140	845	70	0.019	0.036	20970	720	66	0.017	0.028	18450	540	58	0.015	0.020
1.0	8	22140	845	70	0.019	0.036	20970	720	66	0.017	0.028	18450	540	58	0.015	0.020
1.0	10	22140	845	70	0.019	0.023	20970	720	66	0.017	0.018	18450	540	58	0.015	0.013
1.0	12	19680	670	62	0.017	0.023	18640	570	59	0.015	0.018	16400	425	52	0.013	0.013
1.0	14	19680	670	62	0.017	0.014	18640	570	59	0.015	0.011	16400	425	52	0.013	0.008
1.0	16	14760	440	46	0.015	0.014	13980	375	44	0.013	0.011	12300	280	39	0.011	0.008
1.0	18	14760	440	46	0.015	0.009	13980	375	44	0.013	0.007	12300	280	39	0.011	0.005
1.0	20	14760	440	46	0.015	0.009	13980	375	44	0.013	0.007	12300	280	39	0.011	0.005
1.0	22	7380	190	23	0.013	0.009	6990	160	22	0.011	0.007	6150	120	19	0.010	0.005
1.0	26	7380	190	23	0.013	0.009	6990	160	22	0.011	0.007	6150	120	19	0.010	0.005
1.0	30	7380	190	23	0.013	0.009	6990	160	22	0.011	0.007	6150	120	19	0.010	0.005
1.0	40	2460	50	8	0.010	0.009	2330	45	7	0.010	0.007	2050	35	6	0.009	0.005
1.0	50	2460	50	8	0.010	0.006	2330	45	7	0.010	0.005	2050	35	6	0.009	0.003
1.2	4	21900	930	83	0.021	0.076	20700	720	78	0.017	0.059	18200	485	69	0.013	0.042
1.2	6	21900	930	83	0.021	0.076	20700	720	78	0.017	0.059	18200	485	69	0.013	0.042
1.2	8	19710	755	74	0.019	0.043	18630	585	70	0.016	0.034	16380	395	62	0.012	0.024
1.2	10	19710	755	74	0.019	0.027	18630	585	70	0.016	0.021	16380	395	62	0.012	0.015
1.2	12	19710	755	74	0.019	0.027	18630	585	70	0.016	0.021	16380	395	62	0.012	0.015
1.2	14	17520	595	66	0.017	0.027	16560	460	62	0.014	0.021	14560	310	55	0.011	0.015
1.2	16	17520	595	66	0.017	0.016	16560	460	62	0.014	0.013	14560	310	55	0.011	0.009
1.2	20	13140	390	50	0.015	0.011	12420	300	47	0.012	0.008	10920	205	41	0.009	0.006
1.2	26	6570	165	25	0.013	0.011	6210	130	23	0.010	0.008	5460	85	21	0.008	0.006
1.2	30	6570	165	25	0.013	0.011	6210	130	23	0.010	0.008	5460	85	21	0.008	0.006
1.4	6	19200	815	84	0.021	0.088	18100	570	80	0.016	0.069	16000	425	70	0.013	0.049
1.4	8	17280	660	76	0.019	0.050	16290	460	72	0.014	0.039	14400	345	63	0.012	0.028
1.4	10	17280	660	76	0.019	0.050	16290	460	72	0.014	0.039	14400	345	63	0.012	0.028
1.4	14	17280	660	76	0.019	0.032	16290	460	72	0.014	0.025	14400	345	63	0.012	0.018
1.4	16	15360	520	68	0.017	0.032	14480	365	64	0.013	0.025	12800	270	56	0.011	0.018
1.4	20	15360	520	68	0.017	0.019	14480	365	64	0.013	0.015	12800	270	56	0.011	0.011
1.5	4	19200	905	90	0.024	0.135	18100	635	85	0.018	0.105	16000	475	75	0.015	0.075
1.5	5	19200	905	90	0.024	0.095	18100	635	85	0.018	0.074	16000	475	75	0.015	0.053
1.5	6	19200	905	90	0.024	0.095	18100	635	85	0.018	0.074	16000	475	75	0.015	0.053
1.5	7	19200	905	90	0.024	0.095	18100	635	85	0.018	0.074	16000	475	75	0.015	0.053
1.5	8	17280	735	81	0.021	0.054	16290	515	77	0.016	0.042	14400	385	68	0.013	0.030

DIA. = Diameter LBS = Length Below Shank RPM = rev./min. FEED = mm/min. Vc = m/min. Fz = mm/tooth



CARBIDE, 2 FLUTE LONG NECK

SEM845 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)
1.5	10	17280	735	81	0.021	0.054	16290	515	77	0.016	0.042	14400	385	68	0.013	0.030
1.5	12	17280	735	81	0.021	0.054	16290	515	77	0.016	0.042	14400	385	68	0.013	0.030
1.5	14	17280	735	81	0.021	0.034	16290	515	77	0.016	0.026	14400	385	68	0.013	0.019
1.5	16	15360	580	72	0.019	0.034	14480	405	68	0.014	0.026	12800	305	60	0.012	0.019
1.5	18	15360	580	72	0.019	0.034	14480	405	68	0.014	0.026	12800	305	60	0.012	0.019
1.5	20	15360	580	72	0.019	0.020	14480	405	68	0.014	0.016	12800	305	60	0.012	0.011
1.5	22	15360	580	72	0.019	0.020	14480	405	68	0.014	0.016	12800	305	60	0.012	0.011
1.5	26	11520	380	54	0.016	0.014	10860	265	51	0.012	0.011	9600	200	45	0.010	0.008
1.5	30	11520	380	54	0.016	0.014	10860	265	51	0.012	0.011	9600	200	45	0.010	0.008
1.6	8	17800	840	89	0.024	0.101	16800	655	84	0.019	0.078	14800	490	74	0.017	0.056
1.6	10	16020	680	81	0.021	0.058	15120	530	76	0.018	0.045	13320	395	67	0.015	0.032
1.6	12	16020	680	81	0.021	0.058	15120	530	76	0.018	0.045	13320	395	67	0.015	0.032
1.6	16	16020	680	81	0.021	0.036	15120	530	76	0.018	0.028	13320	395	67	0.015	0.020
1.6	20	14240	540	72	0.019	0.036	13440	420	68	0.016	0.028	11840	315	60	0.013	0.020
1.8	8	17800	840	101	0.024	0.113	16800	655	95	0.019	0.088	14800	490	84	0.017	0.063
1.8	10	16020	680	91	0.021	0.065	15120	530	86	0.018	0.050	13320	395	75	0.015	0.036
1.8	12	16020	680	91	0.021	0.065	15120	530	86	0.018	0.050	13320	395	75	0.015	0.036
1.8	16	16020	680	91	0.021	0.041	15120	530	86	0.018	0.032	13320	395	75	0.015	0.023
1.8	20	14240	540	81	0.019	0.041	13440	420	76	0.016	0.032	11840	315	67	0.013	0.023
2.0	6	14400	820	90	0.028	0.180	13600	620	85	0.023	0.140	12000	475	75	0.020	0.100
2.0	8	14400	820	90	0.028	0.126	13600	620	85	0.023	0.098	12000	475	75	0.020	0.070
2.0	10	14400	820	90	0.028	0.126	13600	620	85	0.023	0.098	12000	475	75	0.020	0.070
2.0	12	12960	665	81	0.026	0.072	12240	500	77	0.020	0.056	10800	385	68	0.018	0.040
2.0	14	12960	665	81	0.026	0.072	12240	500	77	0.020	0.056	10800	385	68	0.018	0.040
2.0	16	12960	665	81	0.026	0.072	12240	500	77	0.020	0.056	10800	385	68	0.018	0.040
2.0	18	12960	665	81	0.026	0.045	12240	500	77	0.020	0.035	10800	385	68	0.018	0.025
2.0	20	12960	665	81	0.026	0.045	12240	500	77	0.020	0.035	10800	385	68	0.018	0.025
2.0	22	11520	525	72	0.023	0.045	10880	395	68	0.018	0.035	9600	305	60	0.016	0.025
2.0	26	11520	525	72	0.023	0.045	10880	395	68	0.018	0.035	9600	305	60	0.016	0.025
2.0	30	11520	525	72	0.023	0.027	10880	395	68	0.018	0.021	9600	305	60	0.016	0.015
2.0	35	8640	345	54	0.020	0.018	8160	260	51	0.016	0.014	7200	200	45	0.014	0.010
2.0	40	8640	345	54	0.020	0.018	8160	260	51	0.016	0.014	7200	200	45	0.014	0.010
2.0	45	4320	150	27	0.017	0.018	4080	110	26	0.013	0.014	3600	85	23	0.012	0.010
2.0	50	4320	150	27	0.017	0.018	4080	110	26	0.013	0.014	3600	85	23	0.012	0.010
2.0	60	4320	150	27	0.017	0.018	4080	110	26	0.013	0.014	3600	85	23	0.012	0.010
2.5	8	12300	970	97	0.039	0.158	11600	680	91	0.029	0.123	10300	510	81	0.025	0.088
2.5	10	12300	970	97	0.039	0.158	11600	680	91	0.029	0.123	10300	510	81	0.025	0.088
2.5	12	12300	970	97	0.039	0.158	11600	680	91	0.029	0.123	10300	510	81	0.025	0.088
2.5	14	11070	785	87	0.035	0.090	10440	550	82	0.026	0.070	9270	415	73	0.022	0.050
2.5	16	11070	785	87	0.035	0.090	10440	550	82	0.026	0.070	9270	415	73	0.022	0.050
2.5	18	11070	785	87	0.035	0.090	10440	550	82	0.026	0.070	9270	415	73	0.022	0.050
2.5	20	11070	785	87	0.035	0.090	10440	550	82	0.026	0.070	9270	415	73	0.022	0.050
2.5	22	11070	785	87	0.035	0.056	10440	550	82	0.026	0.044	9270	415	73	0.022	0.031
2.5	26	9840	620	77	0.032	0.056	9280	435	73	0.023	0.044	8240	325	65	0.020	0.031
2.5	30	9840	620	77	0.032	0.056	9280	435	73	0.023	0.044	8240	325	65	0.020	0.031
2.5	35	9840	620	77	0.032	0.034	9280	435	73	0.023	0.026	8240	325	65	0.020	0.019
2.5	40	7380	405	58	0.027	0.034	6960	285	55	0.020	0.026	6180	215	49	0.017	0.019
2.5	45	7380	405	58	0.027	0.023	6960	285	55	0.020	0.018	6180	215	49	0.017	0.013
2.5	50	7380	405	58	0.027	0.023	6960	285	55	0.020	0.018	6180	215	49	0.017	0.013
3.0	6	10900	860	103	0.039	0.270	10300	605	97	0.029	0.210	6600	450	62	0.034	0.150
3.0	8	10900	860	103	0.039	0.270	10300	605	97	0.029	0.210	6600	450	62	0.034	0.150
3.0	10	10900	860	103	0.039	0.189	10300	605	97	0.029	0.147	6600	450	62	0.034	0.105
3.0	12	10900	860	103	0.039	0.189	10300	605	97	0.029	0.147	6600	450	62	0.034	0.105

DIA. = Diameter LBS = Length Below Shank RPM = rev./min. FEED = mm/min. Vc = m/min. Fz = mm/tooth

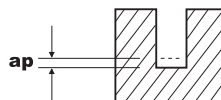


CARBIDE, 2 FLUTE LONG NECK

SEM845 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)	RPM	FEED	Vc	Fz	Ap(mm)
3.0	14	10900	860	103	0.039	0.189	10300	605	97	0.029	0.147	6600	450	62	0.034	0.105
3.0	16	9810	695	92	0.035	0.108	9270	490	87	0.026	0.084	5940	365	56	0.031	0.060
3.0	18	9810	695	92	0.035	0.108	9270	490	87	0.026	0.084	5940	365	56	0.031	0.060
3.0	20	9810	695	92	0.035	0.108	9270	490	87	0.026	0.084	5940	365	56	0.031	0.060
3.0	22	9810	695	92	0.035	0.108	9270	490	87	0.026	0.084	5940	365	56	0.031	0.060
3.0	26	9810	695	92	0.035	0.068	9270	490	87	0.026	0.053	5940	365	56	0.031	0.038
3.0	30	9810	695	92	0.035	0.068	9270	490	87	0.026	0.053	5940	365	56	0.031	0.038
3.0	35	8720	550	82	0.032	0.068	8240	385	78	0.023	0.053	5280	290	50	0.027	0.038
3.0	40	8720	550	82	0.032	0.041	8240	385	78	0.023	0.032	5280	290	50	0.027	0.023
3.0	45	8720	550	82	0.032	0.041	8240	385	78	0.023	0.032	5280	290	50	0.027	0.023
3.0	50	6540	360	62	0.028	0.027	6180	255	58	0.021	0.021	3960	190	37	0.024	0.015
3.0	60	6540	360	62	0.028	0.027	6180	255	58	0.021	0.021	3960	190	37	0.024	0.015
4.0	8	8000	1300	101	0.081	0.360	7600	1160	96	0.076	0.280	6700	770	84	0.057	0.200
4.0	10	8000	1300	101	0.081	0.360	7600	1160	96	0.076	0.280	6700	770	84	0.057	0.200
4.0	12	8000	1300	101	0.081	0.360	7600	1160	96	0.076	0.280	6700	770	84	0.057	0.200
4.0	14	8000	1300	101	0.081	0.252	7600	1160	96	0.076	0.196	6700	770	84	0.057	0.140
4.0	16	8000	1300	101	0.081	0.252	7600	1160	96	0.076	0.196	6700	770	84	0.057	0.140
4.0	18	8000	1300	101	0.081	0.252	7600	1160	96	0.076	0.196	6700	770	84	0.057	0.140
4.0	20	8000	1300	101	0.081	0.252	7600	1160	96	0.076	0.196	6700	770	84	0.057	0.140
4.0	22	7200	1055	90	0.073	0.144	6840	940	86	0.069	0.112	6030	625	76	0.052	0.080
4.0	26	7200	1055	90	0.073	0.144	6840	940	86	0.069	0.112	6030	625	76	0.052	0.080
4.0	30	7200	1055	90	0.073	0.144	6840	940	86	0.069	0.112	6030	625	76	0.052	0.080
4.0	35	7200	1055	90	0.073	0.090	6840	940	86	0.069	0.070	6030	625	76	0.052	0.050
4.0	40	7200	1055	90	0.073	0.090	6840	940	86	0.069	0.070	6030	625	76	0.052	0.050
4.0	45	6400	830	80	0.065	0.090	6080	740	76	0.061	0.070	5360	495	67	0.046	0.050
4.0	50	6400	830	80	0.065	0.090	6080	740	76	0.061	0.070	5360	495	67	0.046	0.050
4.0	60	6400	830	80	0.065	0.054	6080	740	76	0.061	0.042	5360	495	67	0.046	0.030
5.0	16	6400	1155	101	0.090	0.315	6100	900	96	0.074	0.245	5400	605	85	0.056	0.175
5.0	20	6400	1155	101	0.090	0.315	6100	900	96	0.074	0.245	5400	605	85	0.056	0.175
5.0	26	5760	935	90	0.081	0.180	5490	730	86	0.066	0.140	4860	490	76	0.050	0.100
5.0	30	5760	935	90	0.081	0.180	5490	730	86	0.066	0.140	4860	490	76	0.050	0.100
5.0	35	5760	935	90	0.081	0.180	5490	730	86	0.066	0.140	4860	490	76	0.050	0.100
5.0	40	5760	935	90	0.081	0.180	5490	730	86	0.066	0.140	4860	490	76	0.050	0.100
5.0	50	5760	935	90	0.081	0.113	5490	730	86	0.066	0.088	4860	490	76	0.050	0.063
5.0	60	5120	740	80	0.072	0.113	4880	575	77	0.059	0.088	4320	385	68	0.045	0.063
6.0	15	5300	1055	100	0.100	0.540	5000	820	94	0.082	0.420	4400	550	83	0.063	0.300
6.0	20	5300	1055	100	0.100	0.378	5000	820	94	0.082	0.294	4400	550	83	0.063	0.210
6.0	30	5300	1055	100	0.100	0.378	5000	820	94	0.082	0.294	4400	550	83	0.063	0.210
6.0	32	4770	855	90	0.090	0.216	4500	665	85	0.074	0.168	3960	445	75	0.056	0.120
8.0	25	4000	950	101	0.119	0.504	3800	750	96	0.099	0.392	3300	500	83	0.076	0.280
8.0	30	4000	950	101	0.119	0.504	3800	750	96	0.099	0.392	3300	500	83	0.076	0.280
8.0	42	3600	770	90	0.107	0.288	3400	605	85	0.089	0.224	2950	405	74	0.069	0.160
10.0	30	3200	900	101	0.141	0.900	3050	680	96	0.111	0.700	2630	400	83	0.076	0.500
10.0	35	3200	900	101	0.141	0.630	3050	680	96	0.111	0.490	2630	400	83	0.076	0.350
10.0	45	3200	900	101	0.141	0.630	3050	680	96	0.111	0.490	2630	400	83	0.076	0.350
12.0	35	2650	800	100	0.151	1.080	2520	600	95	0.119	0.840	2180	350	82	0.080	0.600
12.0	40	2650	800	100	0.151	0.756	2520	600	95	0.119	0.588	2180	350	82	0.080	0.420
12.0	50	2650	800	100	0.151	0.756	2520	600	95	0.119	0.588	2180	350	82	0.080	0.420

(Depth of Cut per one pass)



DIA. = Diameter
LBS = Length Below Shank

RPM = rev./min.
FEED = mm/min.

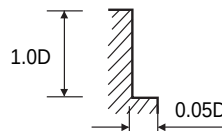
Vc = m/min.
Fz = mm/tooth



CARBIDE, 4 FLUTE

SEME36, SEME71 SERIES

MATERIAL	P												M			
	NON-ALLOYED STEELS ALLOY STEELS CAST IRON				ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS				STAINLESS STEELS			
	~ HRC 35				HRC 35 ~ HRC 45				HRC 45 ~ HRC 55							
	~ 1100N/mm ²				1110 ~ 1500N/mm ²				1500 ~ 2000N/mm ²							
HARDNESS																
STRENGTH																
DIAMETER	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
0.8	31250	235	79	0.002	18750	140	47	0.002	12500	42	31	0.001	15630	120	39	0.002
0.9	29300	245	83	0.002	17580	145	50	0.002	11720	42	33	0.001	14650	120	41	0.002
1.0	26800	250	84	0.002	16080	150	51	0.002	10720	47	34	0.001	13400	125	42	0.002
1.2	22500	265	85	0.003	13500	160	51	0.003	9000	47	34	0.001	11250	130	42	0.003
1.5	18750	270	88	0.004	11250	165	53	0.004	7500	47	35	0.002	9380	135	44	0.004
2.0	14450	295	91	0.005	9450	180	59	0.005	6300	53	40	0.002	7880	145	50	0.005
2.5	12800	315	101	0.006	8200	195	64	0.006	5250	58	41	0.003	6830	165	54	0.006
3.0	11150	335	105	0.008	6950	210	66	0.008	4200	63	40	0.004	5780	180	54	0.008
3.5	10300	465	113	0.011	6360	290	70	0.011	3940	63	43	0.004	5310	235	58	0.011
4.0	9450	600	119	0.016	5780	370	73	0.016	3680	63	46	0.004	4850	295	61	0.015
4.5	8660	615	122	0.018	5250	375	74	0.018	3290	70	47	0.005	4400	305	62	0.017
5.0	7880	630	124	0.020	4730	380	74	0.020	2900	75	46	0.006	3950	315	62	0.020
5.5	7410	660	128	0.022	4460	405	77	0.023	2700	80	47	0.007	3750	330	65	0.022
6.0	6950	695	131	0.025	4200	430	79	0.026	2500	85	47	0.009	3550	345	67	0.024
6.5	6530	710	133	0.027	3940	425	80	0.027	2400	95	49	0.010	3320	350	68	0.026
7.0	6100	720	134	0.030	3680	415	81	0.028	2300	100	51	0.011	3090	355	68	0.029
7.5	5680	735	134	0.032	3410	410	80	0.030	2200	110	52	0.013	2860	360	67	0.031
8.0	5250	745	132	0.035	3150	400	79	0.032	2100	115	53	0.014	2630	370	66	0.035
8.5	4960	720	132	0.036	2990	380	80	0.032	2000	110	53	0.014	2490	355	66	0.036
9.0	4660	695	132	0.037	2830	355	80	0.031	1900	105	54	0.014	2360	340	67	0.036
9.5	4370	665	130	0.038	2660	335	79	0.031	1800	100	54	0.014	2230	330	67	0.037
10.0	4080	640	128	0.039	2500	315	79	0.032	1700	95	53	0.014	2100	315	66	0.038
10.5	3910	620	129	0.040	2400	305	79	0.032	1640	95	54	0.014	2000	300	66	0.038
11.0	3750	595	130	0.040	2300	290	79	0.032	1580	90	55	0.014	1900	285	66	0.038
11.5	3590	570	130	0.040	2200	280	79	0.032	1510	90	55	0.015	1800	270	65	0.038
12.0	3430	545	129	0.040	2100	265	79	0.032	1450	85	55	0.015	1700	250	64	0.037
13.0	3260	520	133	0.040	2000	250	82	0.031	1370	80	56	0.015	1620	240	66	0.037
14.0	3090	490	136	0.040	1900	235	84	0.031	1290	75	57	0.015	1540	230	68	0.037
15.0	2920	460	138	0.039	1800	225	85	0.031	1210	70	57	0.014	1460	220	69	0.038
16.0	2750	440	138	0.040	1700	215	85	0.032	1130	65	57	0.014	1380	210	69	0.038
17.0	2590	410	138	0.040	1610	200	86	0.031	1060	60	57	0.014	1290	200	69	0.039
18.0	2430	385	137	0.040	1510	190	85	0.031	990	55	56	0.014	1210	185	68	0.038
19.0	2260	360	135	0.040	1420	180	85	0.032	920	47	55	0.013	1130	175	67	0.039
20.0	2100	335	132	0.040	1330	170	84	0.032	850	42	53	0.012	1050	160	66	0.038
21.0	2020	320	133	0.040	1270	165	84	0.032	820	42	54	0.013	1010	150	67	0.037
22.0	1940	310	134	0.040	1220	160	84	0.033	780	39	54	0.013	970	145	67	0.037
23.0	1860	295	134	0.040	1160	145	84	0.031	750	37	54	0.012	930	140	67	0.038
24.0	1780	280	134	0.039	1110	140	84	0.032	710	32	54	0.011	890	130	67	0.037
25.0	1700	265	134	0.039	1050	135	82	0.032	680	32	53	0.012	850	125	67	0.037



RPM = rev./min.
FEED = mm/min.
Vc = m/min.
Fz = mm/tooth



CARBIDE, 4 FLUTE LONG LENGTH

SEME72 SERIES

		P											
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON				ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS			
HARDNESS		~ HRC 35				HRC 35 ~ HRC 45				HRC 45 ~ HRC 55			
STRENGTH		~ 1100N/mm ²				1110 ~ 1500N/mm ²				1500 ~ 2000N/mm ²			
DIA.	LOC	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
1.0	3	19200	180	60	0.002	10940	70	34	0.002	6720	35	21	0.001
1.0	4	19200	180	60	0.002	10940	70	34	0.002	6720	35	21	0.001
1.0	5	19200	180	60	0.002	10940	70	34	0.002	6720	35	21	0.001
1.0	6	17280	145	54	0.002	9850	60	31	0.002	6050	30	19	0.001
1.0	7	17280	145	54	0.002	9850	60	31	0.002	6050	30	19	0.001
1.0	8	17280	130	54	0.002	9850	50	31	0.001	6050	25	19	0.001
1.0	10	17280	130	54	0.002	9850	50	31	0.001	6050	25	19	0.001
1.0	12	15360	100	48	0.002	8760	40	28	0.001	5380	20	17	0.001
1.2	4	16200	205	61	0.003	9230	80	35	0.002	5670	40	21	0.002
1.2	6	16200	205	61	0.003	9230	80	35	0.002	5670	40	21	0.002
1.2	8	14580	165	55	0.003	8310	65	31	0.002	5100	35	19	0.002
1.2	10	14580	145	55	0.002	8310	60	31	0.002	5100	30	19	0.001
1.2	12	14580	145	55	0.002	8310	60	31	0.002	5100	30	19	0.001
1.5	6	13800	215	65	0.004	7870	85	37	0.003	4830	45	23	0.002
1.5	8	12420	195	59	0.004	7080	80	33	0.003	4350	40	20	0.002
1.5	10	12420	175	59	0.004	7080	70	33	0.002	4350	35	20	0.002
1.5	12	12420	155	59	0.003	7080	60	33	0.002	4350	30	20	0.002
1.5	14	12420	155	59	0.003	7080	60	33	0.002	4350	30	20	0.002
1.5	16	11040	120	52	0.003	6290	50	30	0.002	3860	25	18	0.002
2.0	8	10580	240	66	0.006	6050	95	38	0.004	3780	55	24	0.004
2.0	10	10580	240	66	0.006	6050	95	38	0.004	3780	55	24	0.004
2.0	12	9530	195	60	0.005	5440	80	34	0.004	3400	45	21	0.003
2.0	14	9530	195	60	0.005	5440	80	34	0.004	3400	45	21	0.003
2.0	16	9530	175	60	0.005	5440	70	34	0.003	3400	40	21	0.003
2.5	10	8990	260	71	0.007	5170	110	41	0.005	3210	60	25	0.005
2.5	12	8990	260	71	0.007	5170	110	41	0.005	3210	60	25	0.005
2.5	16	8090	210	64	0.006	4650	85	37	0.005	2890	50	23	0.004
2.5	20	8090	185	64	0.006	4650	80	37	0.004	2890	45	23	0.004
2.5	26	7200	145	57	0.005	4130	60	32	0.004	2570	35	20	0.003
3.0	10	7400	275	70	0.009	4280	120	40	0.007	2640	65	25	0.006
3.0	12	7400	275	70	0.009	4280	120	40	0.007	2640	65	25	0.006
3.0	14	7400	275	70	0.009	4280	120	40	0.007	2640	65	25	0.006
3.0	16	6660	250	63	0.009	3860	110	36	0.007	2380	60	22	0.006
3.0	20	6660	225	63	0.008	3860	95	36	0.006	2380	55	22	0.006
3.0	26	6660	200	63	0.008	3860	85	36	0.006	2380	50	22	0.005
3.0	30	6660	200	63	0.008	3860	85	36	0.006	2380	50	22	0.005
4.0	12	6000	335	75	0.014	3410	140	43	0.010	2150	70	27	0.008
4.0	16	6000	335	75	0.014	3410	140	43	0.010	2150	70	27	0.008
4.0	20	6000	335	75	0.014	3410	140	43	0.010	2150	70	27	0.008
4.0	26	5400	270	68	0.013	3070	110	39	0.009	1930	60	24	0.008
4.0	30	5400	270	68	0.013	3070	110	39	0.009	1930	60	24	0.008
5.0	20	5120	430	80	0.021	2900	170	46	0.015	1900	85	30	0.011
5.0	25	5120	430	80	0.021	2900	170	46	0.015	1900	85	30	0.011
5.0	30	4610	350	72	0.019	2610	135	41	0.013	1710	70	27	0.010
5.0	35	4610	350	72	0.019	2610	135	41	0.013	1710	70	27	0.010
5.0	40	4610	310	72	0.017	2610	120	41	0.011	1710	60	27	0.009
6.0	15	4420	515	83	0.029	2520	215	48	0.021	1640	110	31	0.017
6.0	20	4420	515	83	0.029	2520	215	48	0.021	1640	110	31	0.017
6.0	25	4420	515	83	0.029	2520	215	48	0.021	1640	110	31	0.017
6.0	30	4420	440	83	0.025	2520	185	48	0.018	1640	90	31	0.014
6.0	35	3970	395	75	0.025	2270	165	43	0.018	1480	85	28	0.014
6.0	40	3970	350	75	0.022	2270	145	43	0.016	1480	75	28	0.013
6.0	45	3970	350	75	0.022	2270	145	43	0.016	1480	75	28	0.013

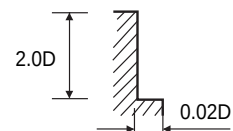
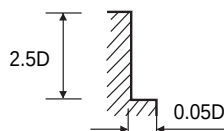
DIA. = Diameter LOC = Length of Cut RPM = rev./min. FEED = mm/min. Vc = m/min. Fz = mm/tooth



CARBIDE, 4 FLUTE LONG LENGTH

SEME72 SERIES

MATERIAL		P											
		NON-ALLOYED STEELS ALLOY STEELS CAST IRON				ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS			
		~ HRC 35				HRC 35 ~ HRC 45				HRC 45 ~ HRC 55			
		~ 1100N/mm ²				1110 ~ 1500N/mm ²				1500 ~ 2000N/mm ²			
DIA.	LOC	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
8.0	25	3360	550	84	0.041	1900	215	48	0.028	1260	110	32	0.022
8.0	30	3360	550	84	0.041	1900	215	48	0.028	1260	110	32	0.022
8.0	35	3360	550	84	0.041	1900	215	48	0.028	1260	110	32	0.022
8.0	40	3360	470	84	0.035	1900	185	48	0.024	1260	90	32	0.018
8.0	45	3020	420	76	0.035	1710	165	43	0.024	1130	85	28	0.019
8.0	50	3020	375	76	0.031	1710	145	43	0.021	1130	75	28	0.017
10.0	30	2820	550	89	0.049	1640	215	52	0.033	1010	110	32	0.027
10.0	35	2820	550	89	0.049	1640	215	52	0.033	1010	110	32	0.027
10.0	40	2820	550	89	0.049	1640	215	52	0.033	1010	110	32	0.027
10.0	45	2820	470	89	0.042	1640	185	52	0.028	1010	90	32	0.022
10.0	50	2820	470	89	0.042	1640	185	52	0.028	1010	90	32	0.022
10.0	55	2540	420	80	0.041	1480	165	46	0.028	910	85	29	0.023
10.0	60	2540	375	80	0.037	1480	145	46	0.024	910	75	29	0.021
12.0	35	2300	430	87	0.047	1390	190	52	0.034	840	85	32	0.025
12.0	40	2300	430	87	0.047	1390	190	52	0.034	840	85	32	0.025
12.0	45	2300	365	87	0.040	1390	165	52	0.030	840	70	32	0.021
12.0	50	2300	365	87	0.040	1390	165	52	0.030	840	70	32	0.021
12.0	55	2300	365	87	0.040	1390	165	52	0.030	840	70	32	0.021
12.0	60	2300	325	87	0.035	1390	145	52	0.026	840	65	32	0.019
12.0	65	2070	290	78	0.035	1250	130	47	0.026	760	55	29	0.018
12.0	70	2070	290	78	0.035	1250	130	47	0.026	760	55	29	0.018
14.0	50	2120	345	93	0.041	1230	145	54	0.029	760	65	33	0.021
14.0	60	2120	345	93	0.041	1230	145	54	0.029	760	65	33	0.021
16.0	40	1940	385	98	0.050	1070	150	54	0.035	670	70	34	0.026
16.0	50	1940	385	98	0.050	1070	150	54	0.035	670	70	34	0.026
16.0	60	1940	325	98	0.042	1070	130	54	0.030	670	60	34	0.022
16.0	70	1940	325	98	0.042	1070	130	54	0.030	670	60	34	0.022
16.0	80	1940	290	98	0.037	1070	115	54	0.027	670	55	34	0.021
16.0	90	1750	260	88	0.037	960	100	48	0.026	600	50	30	0.021
16.0	110	1750	260	88	0.037	960	100	48	0.026	600	50	30	0.021
16.0	120	1750	260	88	0.037	960	100	48	0.026	600	50	30	0.021
18.0	50	1680	330	95	0.049	940	130	53	0.035	590	65	33	0.028
18.0	70	1680	280	95	0.042	940	110	53	0.029	590	55	33	0.023
18.0	100	1510	225	85	0.037	850	85	48	0.025	530	45	30	0.021
20.0	50	1420	275	89	0.048	820	110	52	0.034	500	55	31	0.028
20.0	60	1420	275	89	0.048	820	110	52	0.034	500	55	31	0.028
20.0	70	1420	235	89	0.041	820	90	52	0.027	500	45	31	0.023
20.0	80	1420	235	89	0.041	820	90	52	0.027	500	45	31	0.023
20.0	90	1420	205	89	0.036	820	80	52	0.024	500	40	31	0.020
20.0	110	1270	185	80	0.036	730	75	46	0.026	450	35	28	0.019
20.0	120	1270	185	80	0.036	730	75	46	0.026	450	35	28	0.019
22.0	75	1260	205	87	0.041	820	90	57	0.027	500	45	35	0.023
22.0	110	1260	180	87	0.036	820	80	57	0.024	500	40	35	0.020
25.0	70	1100	215	86	0.049	820	110	64	0.034	500	55	39	0.028
25.0	90	1100	185	86	0.042	820	90	64	0.027	500	45	39	0.023
25.0	110	1100	185	86	0.042	820	90	64	0.027	500	45	39	0.023
25.0	120	1100	160	86	0.036	820	80	64	0.024	500	40	39	0.020



DIA. = Diameter
LOC = Length of Cut
RPM = rev./min.
FEED = mm/min.
Vc = m/min.
Fz = mm/tooth



CARBIDE, 4 FLUTE LONG NECK

SEME73 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ae(mm)	RPM	FEED	Vc	Fz	Ae(mm)	RPM	FEED	Vc	Fz	Ae(mm)
1.0	2	22000	310	69	0.004	0.021	13500	180	42	0.003	0.016	8500	50	27	0.001	0.013
1.0	3	22000	310	69	0.004	0.021	13500	180	42	0.003	0.016	8500	50	27	0.001	0.013
1.0	4	22000	310	69	0.004	0.015	13500	180	42	0.003	0.011	8500	50	27	0.001	0.009
1.0	5	22000	310	69	0.004	0.015	13500	180	42	0.003	0.011	8500	50	27	0.001	0.009
1.0	6	19800	250	62	0.003	0.008	12150	145	38	0.003	0.006	7650	40	24	0.001	0.005
1.0	7	19800	250	62	0.003	0.008	12150	145	38	0.003	0.006	7650	40	24	0.001	0.005
1.0	8	19800	250	62	0.003	0.008	12150	145	38	0.003	0.006	7650	40	24	0.001	0.005
1.0	10	19800	250	62	0.003	0.005	12150	145	38	0.003	0.004	7650	40	24	0.001	0.003
1.0	12	17600	200	55	0.003	0.005	10800	115	34	0.003	0.004	6800	30	21	0.001	0.003
1.0	14	17600	200	55	0.003	0.003	10800	115	34	0.003	0.002	6800	30	21	0.001	0.002
1.0	16	13200	130	41	0.002	0.003	8100	75	25	0.002	0.002	5100	20	16	0.001	0.002
1.0	18	13200	130	41	0.002	0.002	8100	75	25	0.002	0.002	5100	20	16	0.001	0.001
1.0	20	13200	130	41	0.002	0.002	8100	75	25	0.002	0.002	5100	20	16	0.001	0.001
1.0	22	6600	55	21	0.002	0.002	4050	30	13	0.002	0.002	2550	10	8	0.001	0.001
1.0	26	6600	55	21	0.002	0.002	4050	30	13	0.002	0.002	2550	10	8	0.001	0.001
1.0	30	6600	55	21	0.002	0.002	4050	30	13	0.002	0.002	2550	10	8	0.001	0.001
1.0	40	2200	15	7	0.002	0.002	1350	10	4	0.002	0.002	850	5	3	0.001	0.001
1.0	50	2200	15	7	0.002	0.002	1350	10	4	0.002	0.002	850	5	3	0.001	0.001
1.2	4	19500	315	74	0.004	0.018	12100	185	46	0.004	0.013	7500	50	28	0.002	0.011
1.2	6	19500	315	74	0.004	0.018	12100	185	46	0.004	0.013	7500	50	28	0.002	0.011
1.2	8	17550	255	66	0.004	0.010	10890	150	41	0.003	0.008	6750	40	25	0.001	0.006
1.2	10	17550	255	66	0.004	0.006	10890	150	41	0.003	0.005	6750	40	25	0.001	0.004
1.2	12	17550	255	66	0.004	0.006	10890	150	41	0.003	0.005	6750	40	25	0.001	0.004
1.2	14	15600	200	59	0.003	0.006	9680	120	36	0.003	0.005	6000	30	23	0.001	0.004
1.2	16	15600	200	59	0.003	0.004	9680	120	36	0.003	0.003	6000	30	23	0.001	0.002
1.2	20	11700	130	44	0.003	0.003	7260	80	27	0.003	0.002	4500	20	17	0.001	0.002
1.2	26	5850	55	22	0.002	0.003	3630	35	14	0.002	0.002	2250	10	8	0.001	0.002
1.2	30	5850	55	22	0.002	0.003	3630	35	14	0.002	0.002	2250	10	8	0.001	0.002
1.5	4	17000	320	80	0.005	0.032	10700	190	50	0.004	0.024	6500	50	31	0.002	0.019
1.5	5	17000	320	80	0.005	0.022	10700	190	50	0.004	0.017	6500	50	31	0.002	0.013
1.5	6	17000	320	80	0.005	0.022	10700	190	50	0.004	0.017	6500	50	31	0.002	0.013
1.5	7	17000	320	80	0.005	0.022	10700	190	50	0.004	0.017	6500	50	31	0.002	0.013
1.5	8	15300	260	72	0.004	0.013	9630	155	45	0.004	0.009	5850	40	28	0.002	0.008
1.5	10	15300	260	72	0.004	0.013	9630	155	45	0.004	0.009	5850	40	28	0.002	0.008
1.5	12	15300	260	72	0.004	0.013	9630	155	45	0.004	0.009	5850	40	28	0.002	0.008
1.5	14	15300	260	72	0.004	0.008	9630	155	45	0.004	0.006	5850	40	28	0.002	0.005
1.5	16	13600	205	64	0.004	0.008	8560	120	40	0.004	0.006	5200	30	25	0.001	0.005
1.5	18	13600	205	64	0.004	0.008	8560	120	40	0.004	0.006	5200	30	25	0.001	0.005
1.5	20	13600	205	64	0.004	0.005	8560	120	40	0.004	0.004	5200	30	25	0.001	0.003
1.5	22	13600	205	64	0.004	0.005	8560	120	40	0.004	0.004	5200	30	25	0.001	0.003
1.5	26	10200	135	48	0.003	0.003	6420	80	30	0.003	0.002	3900	20	18	0.001	0.002
1.5	30	10200	135	48	0.003	0.003	6420	80	30	0.003	0.002	3900	20	18	0.001	0.002
2.0	6	13900	330	87	0.006	0.042	9070	200	57	0.006	0.032	6000	60	38	0.003	0.025
2.0	8	13900	330	87	0.006	0.029	9070	200	57	0.006	0.022	6000	60	38	0.003	0.018
2.0	10	13900	330	87	0.006	0.029	9070	200	57	0.006	0.022	6000	60	38	0.003	0.018
2.0	12	12510	265	79	0.005	0.017	8160	160	51	0.005	0.013	5400	50	34	0.002	0.010
2.0	16	12510	265	79	0.005	0.017	8160	160	51	0.005	0.013	5400	50	34	0.002	0.010

DIA. = Diameter
LBS = Length Below Shank

RPM = rev./min.
FEED = mm/min.

Vc = m/min.
Fz = mm/tooth



CARBIDE, 4 FLUTE LONG NECK

SEME73 SERIES

MATERIAL		P														
		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ae(mm)	RPM	FEED	Vc	Fz	Ae(mm)	RPM	FEED	Vc	Fz	Ae(mm)
2.0	18	12510	265	79	0.005	0.011	8160	160	51	0.005	0.008	5400	50	34	0.002	0.006
2.0	20	12510	265	79	0.005	0.011	8160	160	51	0.005	0.008	5400	50	34	0.002	0.006
2.0	22	11120	210	70	0.005	0.011	7260	130	46	0.004	0.008	4800	40	30	0.002	0.006
2.0	26	11120	210	70	0.005	0.011	7260	130	46	0.004	0.008	4800	40	30	0.002	0.006
2.0	30	11120	210	70	0.005	0.006	7260	130	46	0.004	0.005	4800	40	30	0.002	0.004
2.0	35	8340	140	52	0.004	0.004	5440	85	34	0.004	0.003	3600	25	23	0.002	0.003
2.0	40	8340	140	52	0.004	0.004	5440	85	34	0.004	0.003	3600	25	23	0.002	0.003
2.0	45	4170	60	26	0.004	0.004	2720	35	17	0.003	0.003	1800	10	11	0.001	0.003
2.0	50	4170	60	26	0.004	0.004	2720	35	17	0.003	0.003	1800	10	11	0.001	0.003
2.0	60	4170	60	26	0.004	0.004	2720	35	17	0.003	0.003	1800	10	11	0.001	0.003
2.5	8	12000	350	94	0.007	0.037	7600	220	60	0.007	0.028	4500	60	35	0.003	0.022
2.5	10	12000	350	94	0.007	0.037	7600	220	60	0.007	0.028	4500	60	35	0.003	0.022
2.5	12	12000	350	94	0.007	0.037	7600	220	60	0.007	0.028	4500	60	35	0.003	0.022
2.5	14	10800	285	85	0.007	0.021	6840	180	54	0.007	0.016	4050	50	32	0.003	0.013
2.5	16	10800	285	85	0.007	0.021	6840	180	54	0.007	0.016	4050	50	32	0.003	0.013
2.5	18	10800	285	85	0.007	0.021	6840	180	54	0.007	0.016	4050	50	32	0.003	0.013
2.5	20	10800	285	85	0.007	0.021	6840	180	54	0.007	0.016	4050	50	32	0.003	0.013
2.5	22	10800	285	85	0.007	0.013	6840	180	54	0.007	0.010	4050	50	32	0.003	0.008
2.5	26	9600	225	75	0.006	0.013	6080	140	48	0.006	0.010	3600	40	28	0.003	0.008
2.5	30	9600	225	75	0.006	0.013	6080	140	48	0.006	0.010	3600	40	28	0.003	0.008
2.5	35	9600	225	75	0.006	0.008	6080	140	48	0.006	0.006	3600	40	28	0.003	0.005
2.5	40	7200	145	57	0.005	0.008	4560	90	36	0.005	0.006	2700	25	21	0.002	0.005
2.5	45	7200	145	57	0.005	0.005	4560	90	36	0.005	0.004	2700	25	21	0.002	0.003
2.5	50	7200	145	57	0.005	0.005	4560	90	36	0.005	0.004	2700	25	21	0.002	0.003
3.0	6	10700	380	101	0.009	0.063	6670	240	63	0.009	0.047	4030	70	38	0.004	0.038
3.0	8	10700	380	101	0.009	0.063	6670	240	63	0.009	0.047	4030	70	38	0.004	0.038
3.0	10	10700	380	101	0.009	0.044	6670	240	63	0.009	0.033	4030	70	38	0.004	0.026
3.0	12	10700	380	101	0.009	0.044	6670	240	63	0.009	0.033	4030	70	38	0.004	0.026
3.0	14	10700	380	101	0.009	0.044	6670	240	63	0.009	0.033	4030	70	38	0.004	0.026
3.0	16	9630	310	91	0.008	0.025	6000	195	57	0.008	0.019	3630	55	34	0.004	0.015
3.0	18	9630	310	91	0.008	0.025	6000	195	57	0.008	0.019	3630	55	34	0.004	0.015
3.0	20	9630	310	91	0.008	0.025	6000	195	57	0.008	0.019	3630	55	34	0.004	0.015
3.0	22	9630	310	91	0.008	0.025	6000	195	57	0.008	0.019	3630	55	34	0.004	0.015
3.0	26	9630	310	91	0.008	0.016	6000	195	57	0.008	0.012	3630	55	34	0.004	0.009
3.0	30	9630	310	91	0.008	0.016	6000	195	57	0.008	0.012	3630	55	34	0.004	0.009
3.0	35	8560	245	81	0.007	0.016	5340	155	50	0.007	0.012	3220	45	30	0.003	0.009
3.0	40	8560	245	81	0.007	0.009	5340	155	50	0.007	0.007	3220	45	30	0.003	0.006
3.0	45	8560	245	81	0.007	0.009	5340	155	50	0.007	0.007	3220	45	30	0.003	0.006
3.0	50	6420	160	61	0.006	0.006	4000	100	38	0.006	0.005	2420	30	23	0.003	0.004
3.0	60	6420	160	61	0.006	0.006	4000	100	38	0.006	0.005	2420	30	23	0.003	0.004
4.0	8	9070	680	114	0.019	0.084	5540	420	70	0.019	0.063	3530	70	44	0.005	0.050
4.0	10	9070	680	114	0.019	0.084	5540	420	70	0.019	0.063	3530	70	44	0.005	0.050
4.0	12	9070	680	114	0.019	0.084	5540	420	70	0.019	0.063	3530	70	44	0.005	0.050
4.0	14	9070	680	114	0.019	0.059	5540	420	70	0.019	0.044	3530	70	44	0.005	0.035
4.0	16	9070	680	114	0.019	0.059	5540	420	70	0.019	0.044	3530	70	44	0.005	0.035
4.0	18	9070	680	114	0.019	0.059	5540	420	70	0.019	0.044	3530	70	44	0.005	0.035
4.0	20	9070	680	114	0.019	0.059	5540	420	70	0.019	0.044	3530	70	44	0.005	0.035

DIA. = Diameter
LBS = Length Below Shank

RPM = rev./min.
FEED = mm/min.

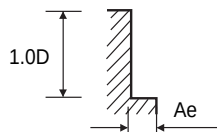
Vc = m/min.
Fz = mm/tooth



CARBIDE, 4 FLUTE LONG NECK

SEME73 SERIES

		P														
MATERIAL		NON-ALLOYED STEELS ALLOY STEELS CAST IRON					ALLOY STEELS HEAT RESISTANT STEELS					HARDENED STEELS				
HARDNESS		~ HRC 35					HRC 35 ~ HRC 45					HRC 45 ~ HRC 55				
STRENGTH		~ 1100N/mm ²					1110 ~ 1500N/mm ²					1500 ~ 2000N/mm ²				
DIA.	LBS	RPM	FEED	Vc	Fz	Ae(mm)	RPM	FEED	Vc	Fz	Ae(mm)	RPM	FEED	Vc	Fz	Ae(mm)
4.0	22	8160	550	103	0.017	0.034	4990	340	63	0.017	0.025	3180	55	40	0.004	0.020
4.0	26	8160	550	103	0.017	0.034	4990	340	63	0.017	0.025	3180	55	40	0.004	0.020
4.0	30	8160	550	103	0.017	0.034	4990	340	63	0.017	0.025	3180	55	40	0.004	0.020
4.0	35	8160	550	103	0.017	0.021	4990	340	63	0.017	0.016	3180	55	40	0.004	0.013
4.0	40	8160	550	103	0.017	0.021	4990	340	63	0.017	0.016	3180	55	40	0.004	0.013
4.0	45	7260	435	91	0.015	0.021	4430	270	56	0.015	0.016	2820	45	35	0.004	0.013
4.0	50	7260	435	91	0.015	0.021	4430	270	56	0.015	0.016	2820	45	35	0.004	0.013
4.0	60	7260	435	91	0.015	0.013	4430	270	56	0.015	0.009	2820	45	35	0.004	0.008
5.0	16	7560	720	119	0.024	0.074	4530	430	71	0.024	0.055	2780	85	44	0.008	0.044
5.0	20	7560	720	119	0.024	0.074	4530	430	71	0.024	0.055	2780	85	44	0.008	0.044
5.0	26	6800	585	107	0.022	0.042	4080	350	64	0.021	0.032	2500	70	39	0.007	0.025
5.0	30	6800	585	107	0.022	0.042	4080	350	64	0.021	0.032	2500	70	39	0.007	0.025
5.0	35	6800	585	107	0.022	0.042	4080	350	64	0.021	0.032	2500	70	39	0.007	0.025
5.0	40	6800	585	107	0.022	0.042	4080	350	64	0.021	0.032	2500	70	39	0.007	0.025
5.0	50	6800	585	107	0.022	0.026	4080	350	64	0.021	0.020	2500	70	39	0.007	0.016
5.0	60	6050	460	95	0.019	0.026	3620	275	57	0.019	0.020	2220	55	35	0.006	0.016
6.0	15	6670	790	126	0.030	0.126	4030	490	76	0.030	0.095	2400	95	45	0.010	0.076
6.0	20	6670	790	126	0.030	0.088	4030	490	76	0.030	0.066	2400	95	45	0.010	0.053
6.0	30	6670	790	126	0.030	0.088	4030	490	76	0.030	0.066	2400	95	45	0.010	0.053
6.0	32	6000	640	113	0.027	0.050	3630	395	68	0.027	0.038	2160	75	41	0.009	0.030
8.0	25	5040	850	127	0.042	0.118	3020	450	76	0.037	0.088	2010	130	51	0.016	0.071
8.0	30	5040	850	127	0.042	0.118	3020	450	76	0.037	0.088	2010	130	51	0.016	0.071
8.0	42	4540	690	114	0.038	0.067	2720	365	68	0.034	0.050	1810	105	45	0.015	0.040
10.0	30	3910	730	123	0.047	0.210	2400	360	75	0.038	0.158	1630	105	51	0.016	0.126
10.0	35	3910	730	123	0.047	0.147	2400	360	75	0.038	0.110	1630	105	51	0.016	0.088
10.0	45	3910	730	123	0.047	0.147	2400	360	75	0.038	0.110	1630	105	51	0.016	0.088
12.0	35	3300	620	124	0.047	0.252	2010	300	76	0.037	0.189	1400	95	53	0.017	0.151
12.0	40	3300	620	124	0.047	0.176	2010	300	76	0.037	0.132	1400	95	53	0.017	0.106
12.0	50	3300	620	124	0.047	0.176	2010	300	76	0.037	0.132	1400	95	53	0.017	0.106



DIA. = Diameter
LBS = Length Below Shank

RPM = rev./min.
FEED = mm/min.

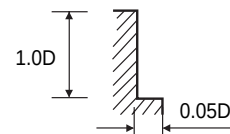
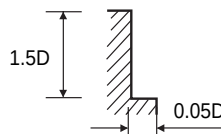
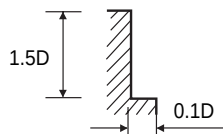
Vc = m/min.
Fz = mm/tooth



CARBIDE, 6 FLUTE 45° HELIX

SEME75 SERIES - NORMAL SPEED

MATERIAL		P											
		NON-ALLOYED STEELS ALLOY STEELS CAST IRON				ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS			
HARDNESS		~ HRC 35				HRC 35 ~ HRC 45				HRC 45 ~ HRC 55			
STRENGTH		~ 1100N/mm ²				1110 ~ 1500N/mm ²				1500 ~ 2000N/mm ²			
DIA.	LOC	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
6.0	15	5840	2100	110	0.060	4075	1440	77	0.059	1660	220	31	0.022
6.0	20	5840	2100	110	0.060	4075	1440	77	0.059	1660	220	31	0.022
6.0	30	5840	1785	110	0.051	4075	1225	77	0.050	1660	190	31	0.019
8.0	20	4410	2100	111	0.079	3085	1440	78	0.078	1220	220	31	0.030
8.0	30	4410	2100	111	0.079	3085	1440	78	0.078	1220	220	31	0.030
8.0	35	4410	2100	111	0.079	3085	1440	78	0.078	1220	220	31	0.030
8.0	40	4410	1785	111	0.067	3085	1225	78	0.066	1220	190	31	0.026
10.0	25	3530	2100	111	0.099	2435	1440	76	0.099	1050	220	33	0.035
10.0	30	3530	2100	111	0.099	2435	1440	76	0.099	1050	220	33	0.035
10.0	40	3530	2100	111	0.099	2435	1440	76	0.099	1050	220	33	0.035
10.0	50	3530	1785	111	0.084	2435	1225	76	0.084	1050	190	33	0.030
12.0	30	2980	1765	112	0.099	2100	1220	79	0.097	880	190	33	0.036
12.0	40	2980	1765	112	0.099	2100	1220	79	0.097	880	190	33	0.036
12.0	50	2980	1500	112	0.084	2100	1035	79	0.082	880	165	33	0.031
12.0	60	2980	1325	112	0.074	2100	915	79	0.073	880	140	33	0.027
16.0	40	2205	1325	111	0.100	1555	925	78	0.099	670	135	34	0.034
16.0	50	2205	1325	111	0.100	1555	925	78	0.099	670	135	34	0.034
16.0	60	2205	1125	111	0.085	1555	790	78	0.085	670	115	34	0.029
16.0	90	1985	895	100	0.075	1395	625	70	0.075	610	95	31	0.026
16.0	110	1985	895	100	0.075	1395	625	70	0.075	610	95	31	0.026
20.0	45	1765	1060	111	0.100	1220	725	77	0.099	525	115	33	0.037
20.0	60	1765	1060	111	0.100	1220	725	77	0.099	525	115	33	0.037
20.0	70	1765	905	111	0.085	1220	615	77	0.084	525	100	33	0.032
20.0	110	1585	715	100	0.075	1090	490	68	0.075	475	80	30	0.028



DIA. = Diameter
LOC = Length of Cut

RPM = rev./min.
FEED = mm/min.

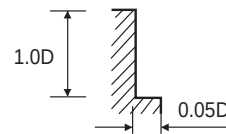
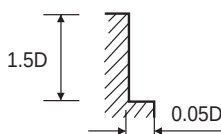
Vc = m/min.
Fz = mm/tooth



CARBIDE, 6 FLUTE 45° HELIX

SEME75 SERIES - HIGH SPEED

MATERIAL		P							
		ALLOY STEELS HEAT RESISTANT STEELS				HARDENED STEELS			
		HRC 35 ~ HRC 45				HRC 45 ~ HRC 55			
		1110 ~ 1500N/mm ²				1500 ~ 2000N/mm ²			
DIA.	LOC	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
6.0	15	17640	6395	333	0.060	8820	3205	166	0.061
6.0	20	17640	6395	333	0.060	8820	3205	166	0.061
6.0	30	17640	5435	333	0.051	8820	2720	166	0.051
8.0	20	13230	6395	333	0.081	6615	3205	166	0.081
8.0	30	13230	6395	333	0.081	6615	3205	166	0.081
8.0	35	13230	6395	333	0.081	6615	3205	166	0.081
8.0	40	13230	5435	333	0.068	6615	2725	166	0.069
10.0	25	10480	6290	329	0.100	5290	3205	166	0.101
10.0	30	10480	6290	329	0.100	5290	3205	166	0.101
10.0	40	10480	6290	329	0.100	5290	3205	166	0.101
10.0	50	10480	5345	329	0.085	5290	2720	166	0.086
12.0	30	8820	5290	333	0.100	4410	2645	166	0.100
12.0	40	8820	5290	333	0.100	4410	2645	166	0.100
12.0	50	8820	4500	333	0.085	4410	2245	166	0.085
12.0	60	8820	3970	333	0.075	4410	1985	166	0.075
16.0	40	6615	3970	333	0.100	3320	1985	167	0.100
16.0	50	6615	3970	333	0.100	3320	1985	167	0.100
16.0	60	6615	3375	333	0.085	3320	1685	167	0.085
16.0	90	5955	2680	299	0.075	2980	1340	150	0.075
16.0	110	5955	2680	299	0.075	2980	1340	150	0.075
20.0	45	5290	3205	332	0.101	2645	1545	166	0.097
20.0	60	5290	3205	332	0.101	2645	1545	166	0.097
20.0	70	5290	2720	332	0.086	2645	1315	166	0.083
20.0	110	4765	2165	299	0.076	2385	1040	150	0.073



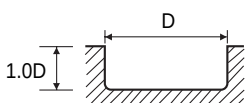
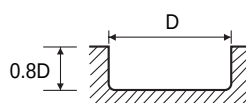
DIA. = Diameter
LOC = Length of Cut
RPM = rev./min.
FEED = mm/min.
Vc = m/min.
Fz = mm/tooth



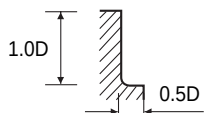
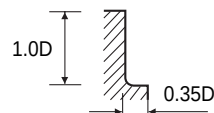
CARBIDE, 4&5 FLUTE MULTIPLE HELIX CORNER RADIUS

G9D75, G9D67, G9D76, G9D68, G9D77, G9D69 SERIES

MATERIAL	P							
	ALLOYED STEELS, CARBON STEELS TOOL STEELS, CAST IRON				ALLOYED STEELS, CARBON STEELS TOOL STEELS, CAST IRON PREHARDENED STEELS			
	~ HRc 25				HRc 25 ~ HRc 40			
HARDNESS								
DIAMETER	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
6.0	12000	1550	225	0.032	10600	1100	200	0.026
8.0	9000	1650	225	0.046	8100	1180	205	0.036
10.0	7200	1650	225	0.057	6400	1180	200	0.046
12.0	6000	1540	225	0.064	5400	1140	205	0.053
16.0	4500	1500	225	0.067	4100	1050	205	0.051
20.0	3600	1330	225	0.074	3200	900	200	0.056

MATERIAL	P							
	ALLOYED STEELS, CARBON STEELS TOOL STEELS, CAST IRON				ALLOYED STEELS, CARBON STEELS TOOL STEELS, CAST IRON PREHARDENED STEELS			
	~ HRc 25				HRc 25 ~ HRc 40			
HARDNESS								
DIAMETER	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
6.0	15800	2570	300	0.041	14300	1850	270	0.032
8.0	11900	2700	300	0.057	10700	1950	270	0.046
10.0	9500	2700	300	0.071	8500	1950	265	0.057
12.0	8000	2570	300	0.080	7100	1850	270	0.065
16.0	6000	2450	300	0.082	5400	1750	270	0.065
20.0	4800	2140	300	0.089	4300	1500	270	0.070

RPM = rev./min.
FEED = mm/min.
Vc = m/min.
Fz = mm/tooth

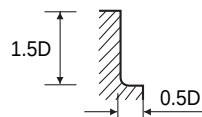


HSS-PM, 4&5 FLUTE MULTIPLE HELIX SHORT LENGTH CORNER RADIUS

GAE53 SERIES

MATERIAL	P											
	STRUCTURAL STEELS CARBON STEELS				STRUCTURAL STEELS CARBON STEELS, CAST IRONS				CARBON STEELS ALLOY STEELS, TOOL STEELS			
	HARDNESS				~ HRc 20				HRc 20 ~ 30			
	STRENGTH				500 ~ 800N/mm ²				800 ~ 1000N/mm ²			
DIAMETER	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
6.0	3250	240	60	0.019	2500	185	48	0.018	1800	120	34	0.017
8.0	2750	300	70	0.027	2150	240	54	0.028	1550	170	38	0.027
10.0	2150	430	70	0.050	1700	330	54	0.049	1200	205	38	0.043
12.0	1800	430	70	0.060	1400	350	54	0.063	1000	240	38	0.059
14.0	1550	430	70	0.055	1200	350	54	0.073	850	240	38	0.069
16.0	1400	430	70	0.063	1100	350	54	0.081	750	240	38	0.080
18.0	1200	430	70	0.072	1000	350	54	0.085	700	240	38	0.086
20.0	1100	445	70	0.080	850	350	54	0.101	600	240	38	0.100

MATERIAL	P				M			
	PREHARDENED STEELS ALLOY STEELS, TOOL STEELS				STAINLESS STEELS			
	HARDNESS							
	STRENGTH							
DIAMETER	RPM	FEED	Vc	Fz	RPM	FEED	Vc	Fz
6.0	1500	110	28	0.018	1750	130	33	0.019
8.0	1200	130	32	0.028	1450	170	36	0.029
10.0	1000	170	32	0.041	1150	200	36	0.045
12.0	850	190	32	0.055	950	245	36	0.064
14.0	700	190	32	0.065	850	245	36	0.074
16.0	600	190	32	0.075	700	245	36	0.085
18.0	550	190	32	0.082	650	245	36	0.093
20.0	500	190	32	0.092	600	245	36	0.107



RPM = rev./min.
FEED = mm/min.
Vc = m/min.
Fz = mm/tooth

4G MILLS



4C MILLS



4G MILLS



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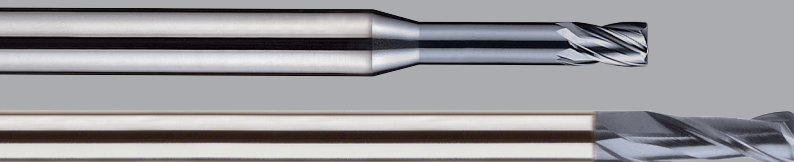
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4C MILLS



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Note The new address above has currently been updated since Korean new postal standard was valid from 2014.
Be noticed that the physical Headquarter location is NOT changed.



Tool specifications are subject to change without prior notice.

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